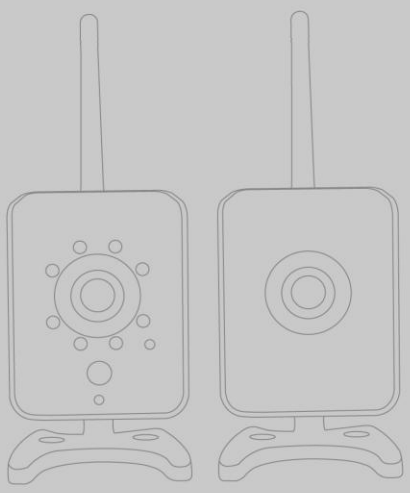
urmet

USER MANUAL
URMET CLOUD IP CAMERAS

urmet cloud



VIDEO
SURVEILLANCE

URMET IS IN YOUR LIFE

DS1093-104A

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1 GENERAL INFORMATION

Dear Customer,
Thank you for choosing this product.

This manual will help you to properly use the following URMET S.p.A IP video recording devices: Ref. 1093/184M11 - Ref. 1093/184M12 – Ref. 1093/184M14 - Ref. 1093/184M15 - Ref. 1093/184M16.
Please read all the information in this manual for a proper and safe usage. We suggest to keep the manual and refer to it whenever necessary.

1.1 SAFETY

Electricity

- Before connecting to electrical outlet, verify the electrical specifications of the device are suitable for the available power source.
- We suggest to connect the device to electrical outlet via a switch disconnector.
- In case of misfunctioning, disconnect electrical power from the general switch.
- Use only the provided power supply.

Safety precautions

- Do not expose the device to rain or humidity and do not insert any solid or liquid object in it to prevent the risk of fire or electrocution. In these events disconnect the device from the electrical outlet and call technical assistance to check it.
- Do not open the device. Any repair must be made by qualified personnel or by calling the nearest authorized technical assistance center.
- Keep the device away from children to prevent any, even involuntary, damaging.
- Do not touch the device with wet hands as it might cause electrical shock or mechanical damages.
- If the device falls down while working or if the salesbox is damaged, do not continue using it. If usage is continued under such circumstances electrical shocks might take place. Contact the authorized retailer or installer.

Installation precautions

- Do not install the camera in places with possible exposure to rain or humidity without the proper protective case.
- Do not point the camera directly to sunlight or other intense sources of light, even when turned off. The subject of recording must not be against the light.
- Do not point the camera against reflective objects.
- Some light conditions (such as fluorescent color) can affect the recorded colors.
- Use AUTO-IRIS lens when operating the camera in changing light environments.
- Do not use this device on any unstable support such as lurching or sloping table to prevent the device from falling and be damaged.
- If water or any other material should penetrate the camera, stop using it as it might cause fire or electrical shock and contact the authorized retailer or installer.
- Do not cover the device with any cloth while using to prevent deformation of the external part and inner components heating which might provoke fire, electrical shock or mechanical damages.
- Do not put magnets or magnetized objects close to the device to prevent functional anomalies.
- Do not use this device in presence of smoke, steam, humidity, dust or intense vibrations.
- Do not use the device shortly after moving it from warm to cold environment and vice versa. After moving the device wait three hours before using it: this time is necessary for the device to adapt to the new environment (temperature, humidity, etc.).

Usage precautions

- Check the device is not damaged after removing the packaging.
- Check the working environment is not too humid and the temperature is within the indicated range.
- Do not point the camera against sunlight to prevent sensor damages.

Device cleaning

- Use a dry cloth to remove dust and dirt from the device.
- If dirt cannot be removed with a dry cloth, use a humid cloth and a neutral cleanser.
- Do not use spray cleanser for device cleaning. Do not use volatile liquids such as gasoline, alcohol, solvents etc. or chemical treated cloth to clean the device to prevent deformations, damages or scars on the finishing paint.
- Disconnect the device from the electrical outlet before cleaning.

Memory (micro-SD Card)

- Format the micro-SD card before using it for the first time.
- Insert the card only in the indicated direction, any forcing could damage it.
- The micro-SD card can be affected by temperature jump and vibrations. Ignoring these precautions could affect the memory card functioning and might cause the loss of recorded data.
- In case of repair, we suggest to save the recorded data before taking the card to the repair center. URMET S.p.A. is not in any way responsible for the loss of recorded data.

Video recording

- This device is not designed as a burglar system but mainly to transmit and record video images. URMET S.p.A. is not in any way responsible for loss or damages of the user consequent to theft.
- Before using the device, record a demo video to verify the correct functionality of this feature. URMET S.p.A. is not in any way responsible for loss of recorded data consequent to wrong setting or usage, device misfunctioning or failure.
- This device is composed by electronic precision components. Do not hit the device while recording as it might affect the video.

Privacy and Copyright

- The IP camera is designed for surveillance systems. Video recording is subject to the laws applicable to the Country where used.It is forbidden to record images with Copyright.
- The User is responsible to check and respect all local laws and norms for video signal recording. The manufacturer is NOT in any way liable for any usage of the product which might result not compliant to the relevant norms. For further information please visit http://www.garanteprivacy.it/web/guest/home_en

Firmware upgrade

- Refer to URMET S.p.A. Customer Service Technical Assistance periodically to check availability of firmware upgrades.

Network configuration

- Camera default setting is DHCP mode. If the network does not support dynamic addressing (DHCP), the device will automatically switch to factory IP 192.168.1.200. Use Urmet "*IP-Discovery*" software to modify the IP address and other network settings to prevent any conflict with other devices on the network.
- Once the camera is correctly connected and configured on the IP network it will be possible to show video and settings on any PC or smartphone.

Network connections

- When connecting a PC (using Software Client or Browser), any video channel on the PC will be using "unicast" connection (TCP, RTP, UDP).
- The device can support up to 5 "unicast" connections so it is possible to show the video on maximum 5 remote devices (PC or smartphone) at the same time depending on the available network band.

1.2 CERTIFICATIONS

This product is compliant to - R&TTE 1999/5/EC Directive on radio and telecommunication terminal equipment.

1.3 OPENING THE SALESBOX

Verify the packaging and the device are not damaged. If any part is missing or damaged, contact the retailer immediately. In this case do not try to use the device. If the device has to be sent back to the retailer or the supplier, use the original packaging.

1.3.1 **Salesbox content**

- N°1 IP camera
- N°1 Antenna (only 1093/184M11, 1093/184M12, 1093/184M15 and 1093/184M16)
- N°1 Bracket (only 1093/184M11, 1093/184M12, 1093/184M15 and 1093/184M16)
- N°1 Power supply
- N°1 Data cable
- N°1 CD containing full documentation
- UID and MAC address A5 paper sheet
- N°1 Quick user guide

Please note the included accessories could be modified without notice.

2 INSTALLATION

2.1 REF. 1093/184M11 – REF. 1093/184M12 INSTALLATION

Refer to the following steps for easy and quick installation:

- Take the bracket out of the salesbox
- Separate the rotating top part from the bracket (just unscrew it until the two parts will detach)
- Tighten the rotating top part of the bracket first and then the antenna to the camera

- Tighten the rotating top part to the body of the bracket depending on the chosen position of the camera (see below).

WALL INSTALLATION, UP ORIENTED

WALL INSTALLATION, DOWN ORIENTED

WALL INSTALLATION, UPSIDE ORIENTED

WALL INSTALLATION, DOWNSIDE ORIENTED

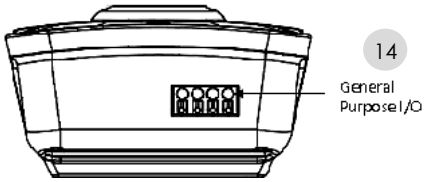
FLAT SUPPORT INSTALLATION, DOWN ORIENTED

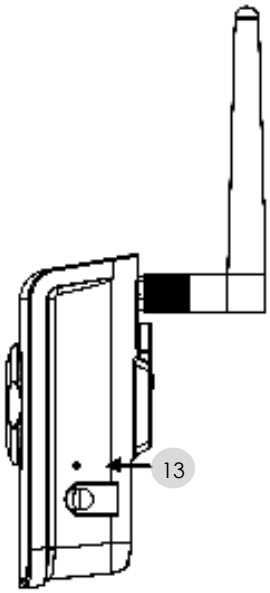
FLAT SUPPORT INSTALLATION, UP ORIENTED

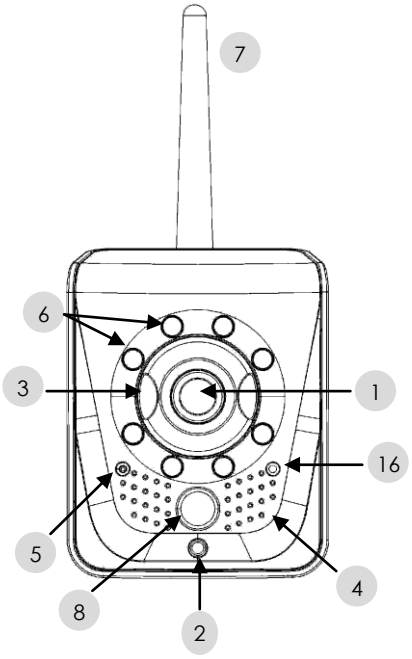
CIELING INSTALLATION

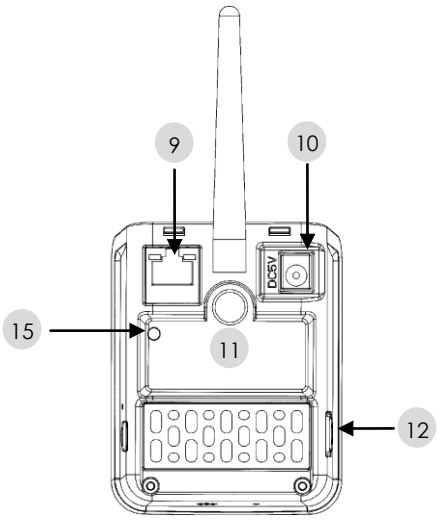
2.2 REF. 1093/184M11- REF. 1093/184M12 PARTS DESCRIPTION

1 Lens	5 Microphone	9 Ethernet port	13 Reset
2 Status LED	6 Infrared LED	10 Power supply port	14 In/Out
3 Focus ring	7 Antenna	11 Bracket hole	15 WPS button
4 Speaker	8 PIR motion sensor	12 Micro-SD slot	16 Light sensor



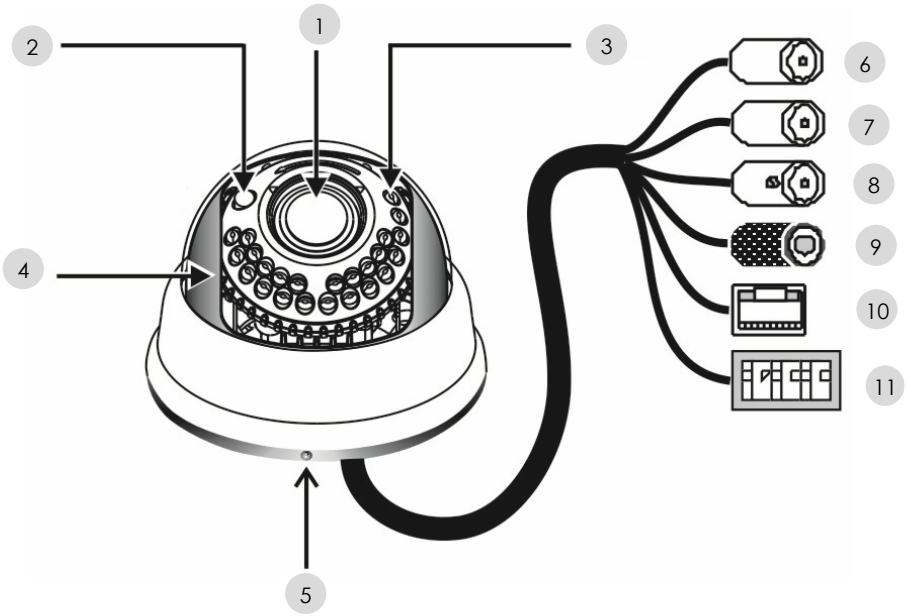


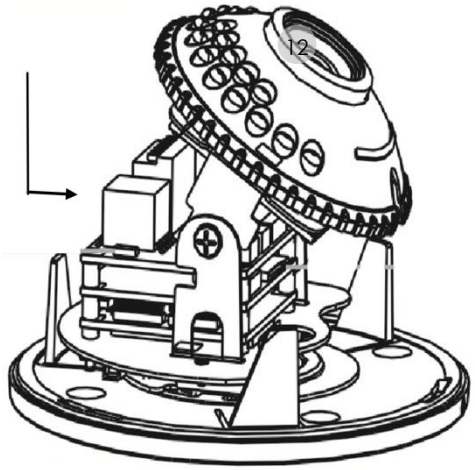




2.3 REF. 1093/184M14 PARTS DESCRIPTION

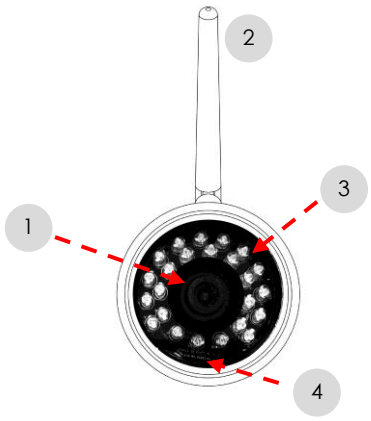
1 Lens
2 Light sensor
3 Infrared LED
4 Transparent cap
5 Cap lock
6 Microphone in (pink)
7 Audio out (green)
8 Video out
9 Power supply port
10 Ethernet port
11 Terminals lock
12 Micro-SD slot

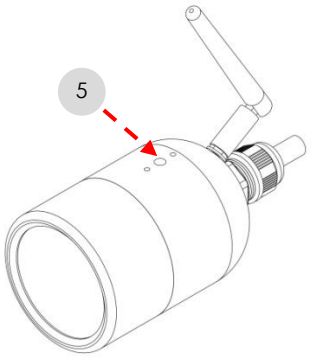


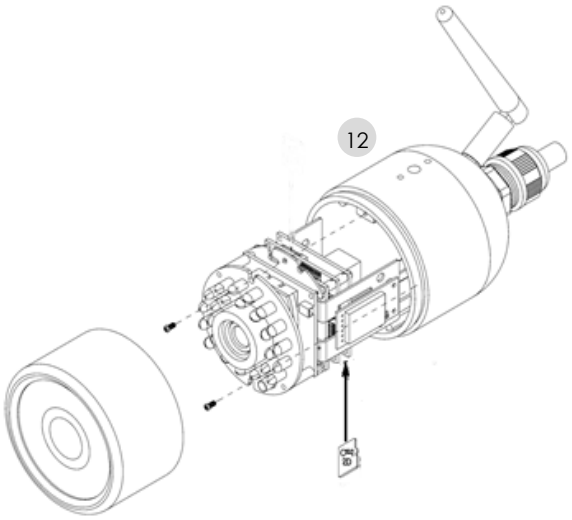


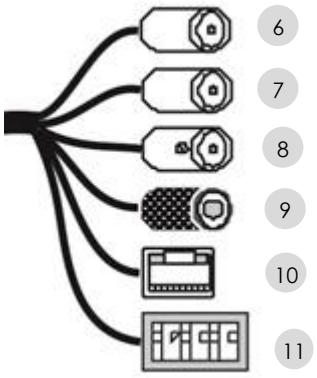
2.4 REF.1093/184M15 – REF.1093/184M16 PARTS DESCRIPTION

1 Lens
2 Antenna
3 Infrared LED
4 Light sensor
5 Bracket hole
6 Microphone in (pink)
7 Audio out (green)
8 Video out
9 Power supply port
10 Ethernet port
11 Terminals lock
12 Micro-SD slot









Ref. 1093/184M14 Ref. 1093/184M15 and Ref. 1093/184M16 Terminals chart

1	Default = Reset Hardware terminal
2	GND = Ground terminal
3	GND = Ground terminal
4	DIN = Burglar alarm input terminal
5	DOUT = Burglar alarm output terminal
6	COM = Common terminal

- Connect burglar alarm devices (f.i. sirens) to DOUT and COM terminals
- Connect burglar alarm sensors to DIN and GND terminals

- Short circuit Default and Ground (GND) terminals to reset default parameters and reset factory hardware

Ref. 1093/184M11 RJ45 connector green LED chart

2.4.1 LENS FOCUS REGULATION

For Ref. 1093/184M11 and Ref. 1093/184M12 model, rotate focus regulation external ring clockwise to adjust.
For Ref.1093/184M15 and Ref.1093/184M16 model, remove the top cap and use the two small levers on the lens to adjust focus and zoom. Once finished lock the levers to save the settings.

※Please note:
Connect the camera to the network before adjusting the focus. Ref.1093/184M15 and Ref.1093/184M16 models can also be connected via BNC connector to a monitor with analogic video input.

2.4.2 MICRO SD CARD

The camera supports a Micro SD slot for local memory recording. Switch off the camera before inserting or taking out the Micro SD card from the slot.

※Please note:
Disconnect the camera from electrical outlet before replacing the Micro SD card.

This camera supports Micro SD / SDHC Class 6 from 4GB to 32GB cards.

2.5 STATUS LED CHARTS

2.5.1 REF. 1093/184M11 FRONT LED CHART

Camera Status	Description	LED Status
Power on		Steady Red 8s – 10s
Device starting	Wired network connection or restart after reset to default settings (Access Point mode for WiFi connection)	Slow blinking Red14 times
	Managed mode for WiFi connection (previously connected to the WiFi network)	Slow blinking Red 6 times then fast blinking 10-20 times
Starting complete	Wired network connection or restart after reset to default settings (Access Point mode for WiFi connection)	Steady Red
Connecting to WiFi router (Managed mode)	Camera search router WiFi connection, when found it connects to the network with the password	Fast Blinking Red
Connecting to WiFi router	WiFi connection established or failed	Steady Red for 3s then loads Micro SD content
Loading Micro SD content	All network connections (wired, WiFi access point, WiFi managed)	Steady Red for 2s, off for 2s, cycling
Micro-SD loaded or no Micro-SD present	If connected to router (wired or WiFi) or in WiFi Access Point mode	Blinking Red once then steady
	WiFi connection failed	Blinking Red once alternating with fast blinking
FW upgrading	All network connections	Fast Blinking Red before restart
Reset default settings		

2.5.2 **REF. 1093/184M12 FRONT LED CHART**

Camera Status	Description	LED Status
Power on		Steady Orange 8s – 10s
Device Starting	Wired connection	Red blinking
	WiFi connection (Access Point or Managed mode)	Red blinking for 5s then alternate Green, Red and Orange
Starting complete	Wired connection	Steady Red
	WiFi Access Point mode or WiFi connection already established	Steady Orange
	WiFi connection failed	Steady Red with Orange blinking
Micro SD card loading	Wired connection	Red blinking every 2s
	WiFi Access Point mode or WiFi connection already established	Steady Green with Orange blinking for 2s
	WiFi connection failed	Green blinking alternating with Red and Orange
Micro SD card loaded or no Micro SD present	Wired connection	Steady Red
	WiFi Access Point mode or WiFi connection already established	Steady Orange
	WiFi connection failed	Staedy Red with Orange blinking
Reset to default settings or FW upgrading	Wired connection	Red blinking
	WiFi Access Point mode or WiFi connection already established	Steady Green with Orange blinking
Reset to default settings	WiFi connection failed	Green blinking alternating with Red and Orange

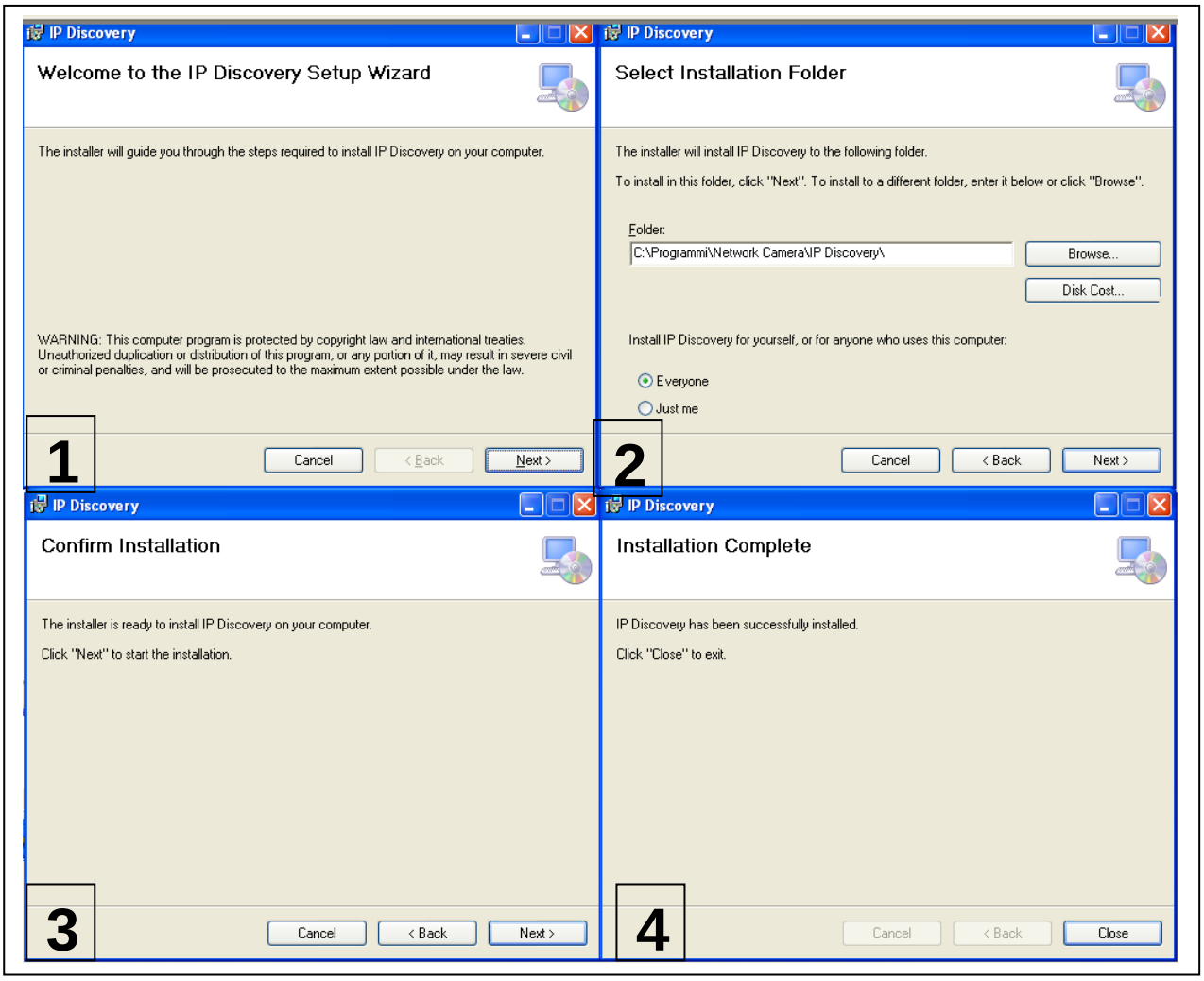
2.5.3 **RJ45 CONNECTOR GREEN LED CHART FOR REF. 1093/184M14, 1093/184M15, 1093/184M16**

Camera Status	Description	LED Status
Power on		Steady Green 8s – 10s
Device starting	Wired network connection or restart after reset to default settings (Access Point mode for WiFi connection)	Slow blinking Green 14 times
	Managed mode for WiFi connection (previously connected to the WiFi network)	Slow blinking Green 6 times then fast blinking 10-20 times
Starting complete	Wired network connection or restart after reset to default settings (Access Point mode for WiFi connection)	Steady Green
Connecting to WiFi router (Managed mode)	Camera search router WiFi connection, when found it connects to the network with the password	Fast blinking Green
Connecting to WiFi router	WiFi connection established or failed	Steady Green for 3s then loads Micro SD content
Loading Micro SD content	All network connections (wired, WiFi access point, WiFi managed)	Steady Green 2s, off 2s, cycling
Micro-SD loaded or no Micro-SD present	If connected to router (wired or WiFi) or in WiFi Access Point mode	Green blinking once then steady
	WiFi connection failed	Green blinking once alternate fast blinking
FW upgrading	All network connections	Fast blinking Green before restart
Reset default settings		

3 IP DISCOVERY

This software detects the Urmet Cloud series Camera IP address within a local network.
First, install setup.msi file from the included CD.

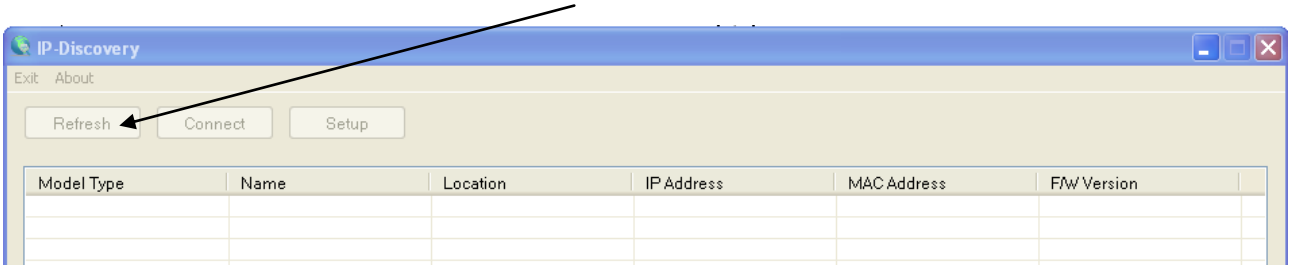
setup.msi

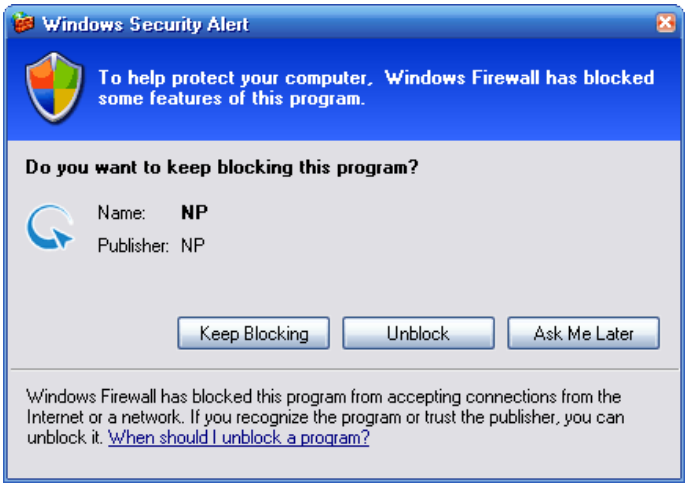

IP Discovery
Welcome to the IP Discovery Setup Wizard
The installer will guide you through the steps required to install IP Discovery on your computer.
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.
Cancel
< Back
Next >
1
IP Discovery
Select Installation Folder
The installer will install IP Discovery to the following folder.
To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".
Folder:
C:\Programmi\Network Camera\IP Discovery\
Browse...
Disk Cost...
Install IP Discovery for yourself, or for anyone who uses this computer:
Everyone
Just me
Cancel
< Back
Next >
2
IP Discovery
Confirm Installation
The installer is ready to install IP Discovery on your computer.
Click "Next" to start the installation.
Cancel
< Back
Next >
3
IP Discovery
Installation Complete
IP Discovery has been successfully installed.
Click "Close" to exit.
Cancel
< Back
Close
4

1) Press Next to start installation.
2) Use Browse to choose the folder in which you prefer to install the program or keep the default folder. Press Next to continue
3) Press Next to continue
4) Press Close after installation completed

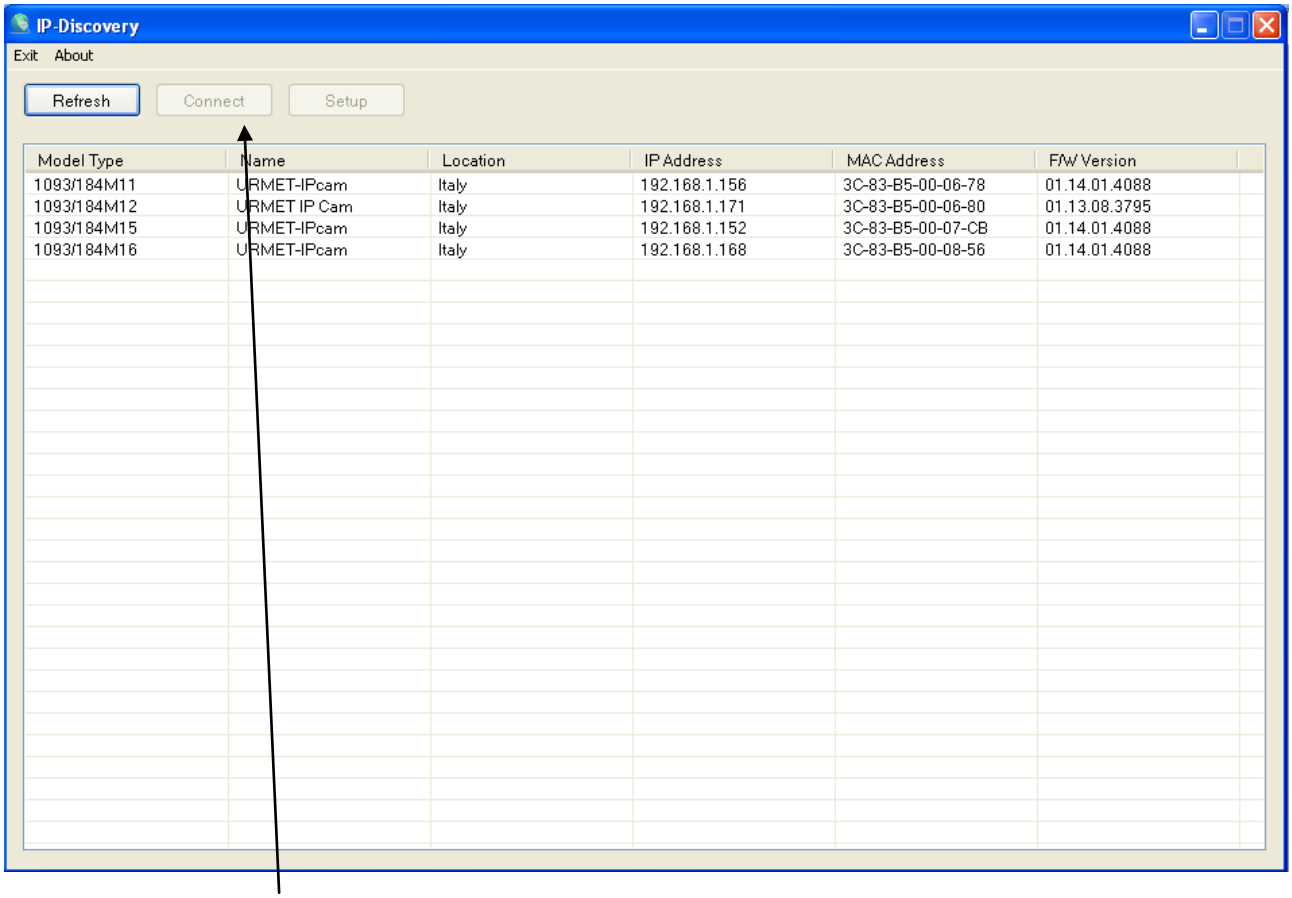
Start the program from Start menu → Programs → Network Camera → IP Discovery

If the following window pops up press **Unlock** then **Refresh**

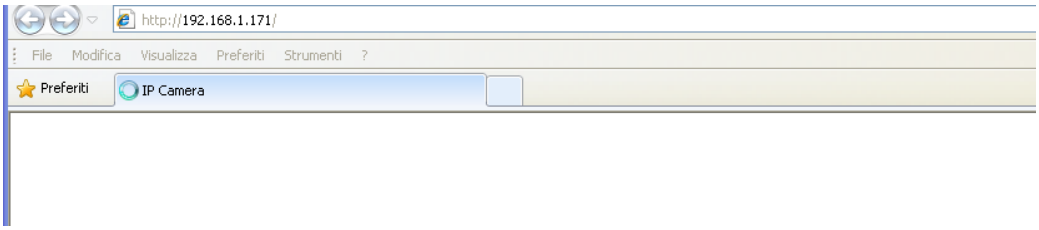



Windows Security Alert
To help protect your computer, Windows Firewall has blocked some features of this program.
Do you want to keep blocking this program?
Name: NP
Publisher: NP
Keep Blocking
Unblock
Ask Me Later
Windows Firewall has blocked this program from accepting connections from the Internet or a network. If you recognize the program or trust the publisher, you can unblock it. When should I unblock a program?

A window with all the cameras available in the same PC local network will be displayed.

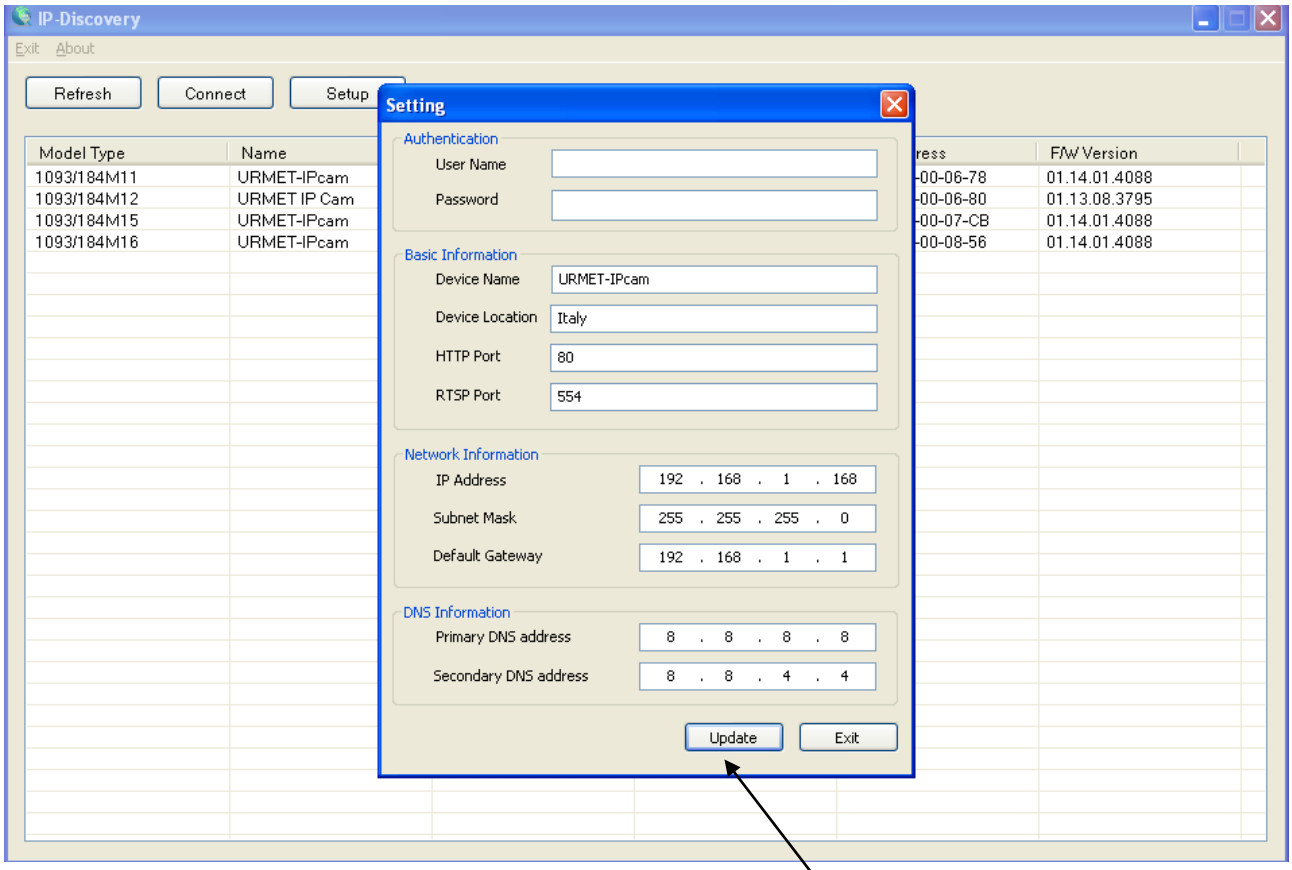


Select one and press **Connect** to open the camera WEB interface.



Connect to 192.168.1.
The server 192.168.1. at Login requires a username and password.
Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection).
User name:
admin
Password:
Remember my password
OK
Cancel

If the camera has an IP address different from the local LAN network or if you prefer to input a new address, press Setup after selecting the camera. It will open the settings menu of that camera.

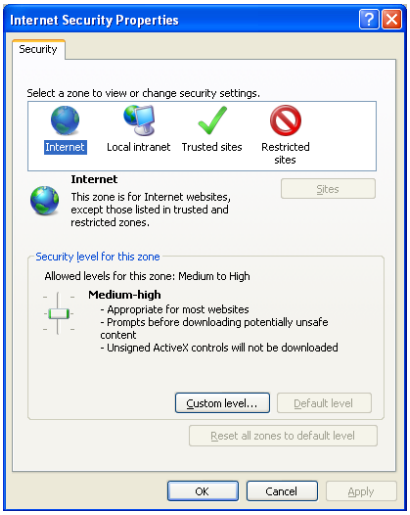


Choose a User Name and Password (default: admin/admin). Update the parameters then press **Update.**

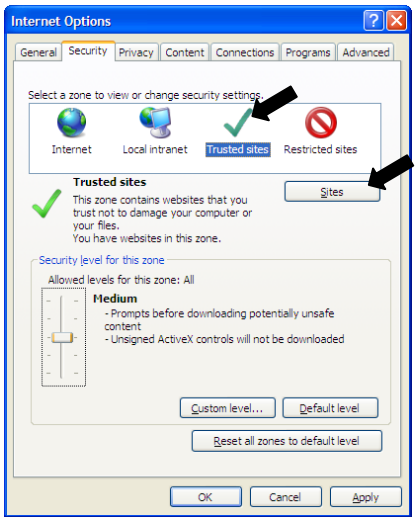
4 ACTIVEX INSTALLATION

If the installation of an ActiveX component is required, follow these steps.
Before connecting the PC you need to configure IE protection as follows:

- From Internet Explorer Menu select Tools -> Internet Options->Security or Protection (depending on different Internet Explorer versions)
- "Properties – Internet Protection" window will be displayed.

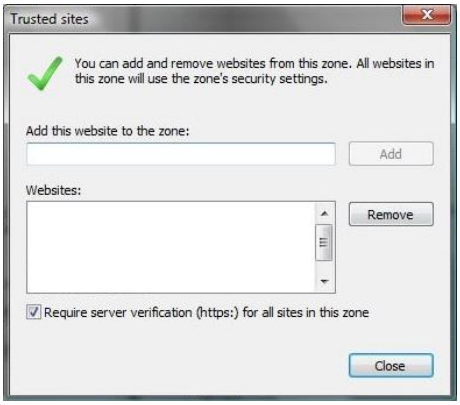


Select "Safe websites".

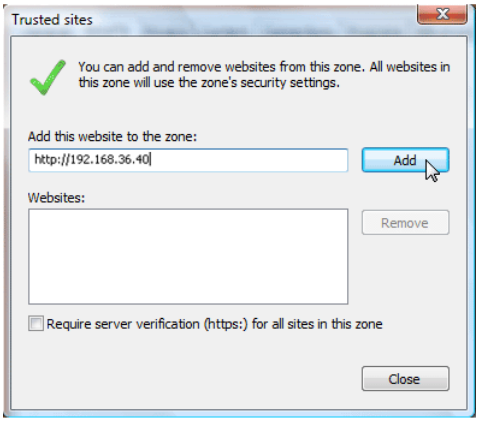


- Click "Websites…".

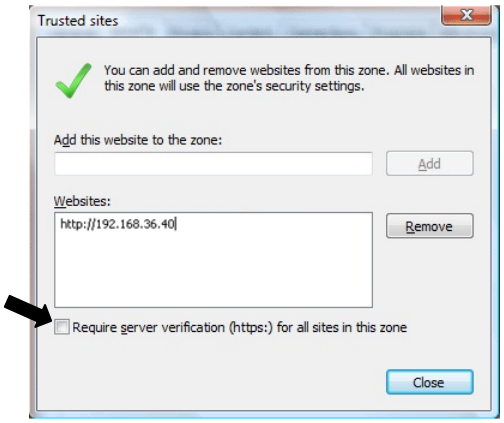
- The following window will be displayed.


Trusted sites
You can add and remove websites from this zone. All websites in this zone will use the zone's security settings.
Add this website to the zone:
Add
Websites:
Remove
Require server verification (https:) for all sites in this zone
Close

- Input camera IP address in “Add website to area”

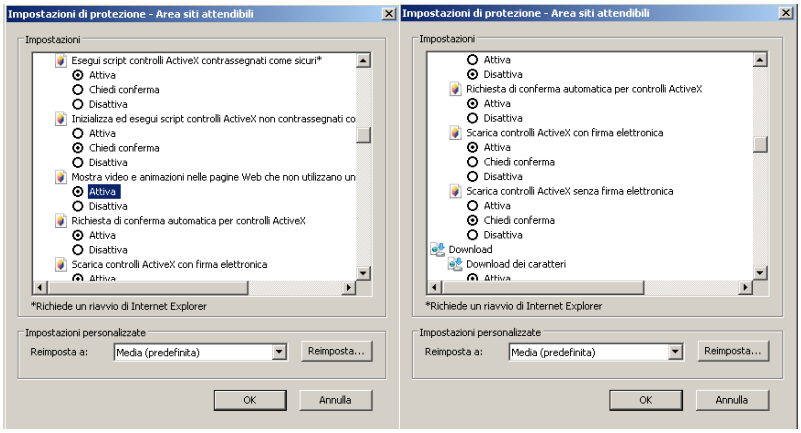

Trusted sites
You can add and remove websites from this zone. All websites in this zone will use the zone's security settings.
Add this website to the zone:
http://192.168.36.40
Add
Websites:
Remove
Require server verification (https:) for all sites in this zone
Close

- Press “Add”.
- The following confirm window will be displayed


Trusted sites
You can add and remove websites from this zone. All websites in this zone will use the zone's security settings.
Add this website to the zone:
Add
Websites:
http://192.168.36.40
Remove
Require server verification (https:) for all sites in this zone
Close

※Please note
Do not thick “Request server check (https:) for all area websites”.

- Press “OK” or “Close”.
- Select “***Customized Level***” and check:
  - “**Enabled**” or “**Ask confirmation**” is selected for “***Initialize and run ActiveX control script not marked as safe***”
  - “**Enabled**” or “**Ask confirmation**” is selected for “***Download ActiveX control without electronic signature***”

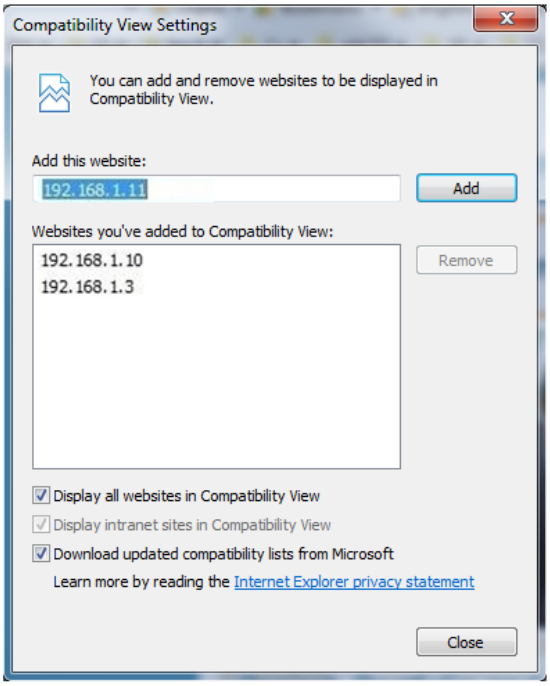


- Press “OK” to confirm and close Internet Options menu.
- Install Active X from Internet Explorer.

Please note

Procedure for Internet Explorer 11 on Win 7/8 OS:

1. Using Win 7 or Win 8 open IE Browser and select Tools ->Settings Compatibility View"
2. Add camera IP address in the pop up window as shown below.
3. Check all compatibility options. Select "Display all websites in Compatibility view” option.


Compatibility View Settings
You can add and remove websites to be displayed in Compatibility View.
Add this website:
192.168.1.11
Add
Websites you've added to Compatibility View:
192.168.1.10
192.168.1.3
Remove
Display all websites in Compatibility View
Display intranet sites in Compatibility View
Download updated compatibility lists from Microsoft
Learn more by reading the Internet Explorer privacy statement
Close

Please note: the video recording on the camera can be displayed on a webpage by Activex only on PC with one monitor. Correct display can not be assured for double monitor PC.

5 IP CAMERA CONFIGURATION PAGE

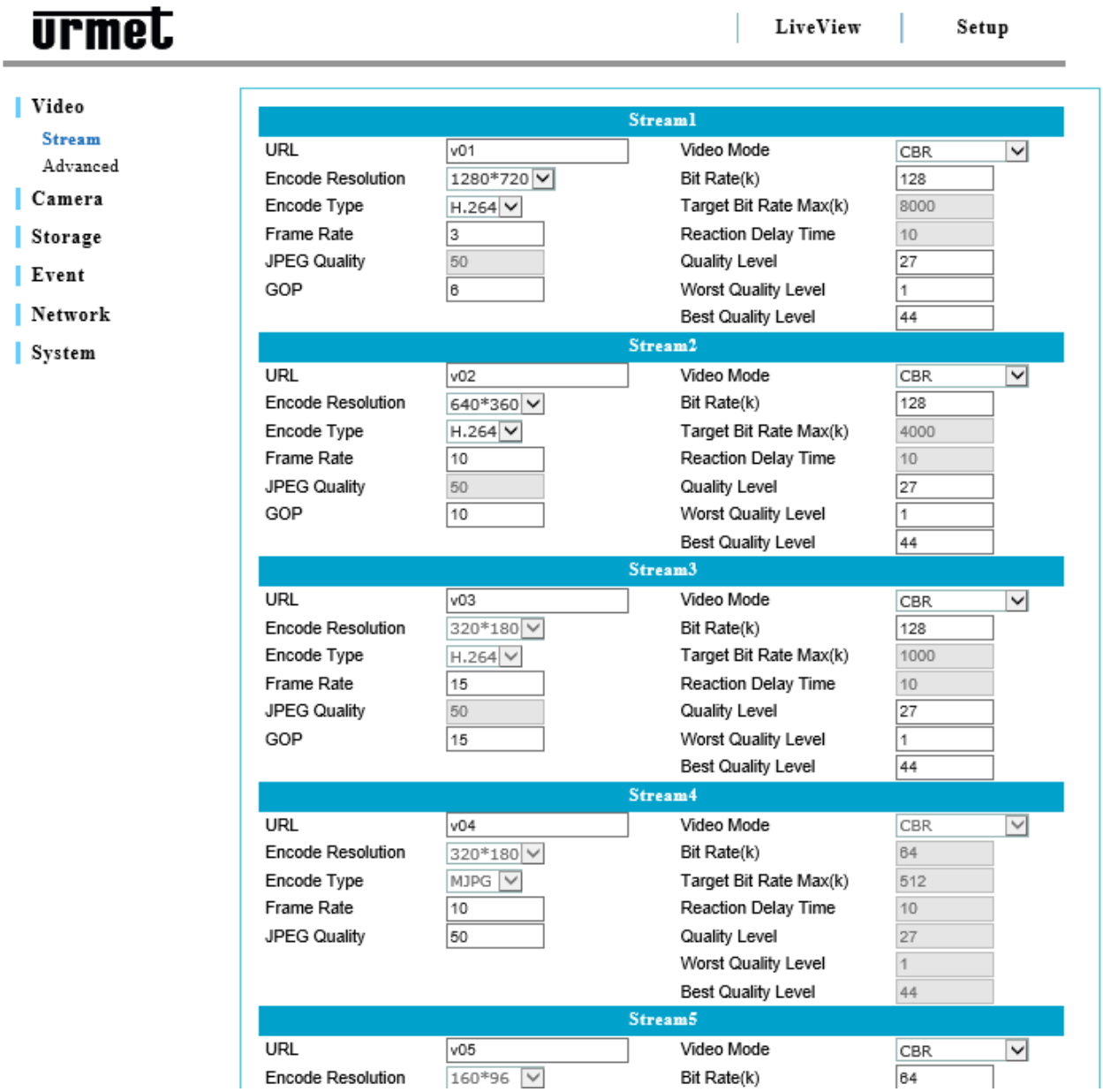
Use the following URL directly on the browser to enter the IP camera configuration page:

http:// <IPcameraaddress>/setup.html

On this page the user can modify the IP camera basic and advanced settings.

- **Video** Main features and advanced settings of video stream
- **Camera** Image settings, such as brightness, white balance, etc.
- **Memory** Management of data recorded on Micro SD card
- **Events** Advanced settings for Events configuration, email sending, instant pictures, etc.
- **Network** Network and Events configuration
- **System** Firmware version and upgrades, user access management.
  System information

5.1 VIDEO SETTINGS

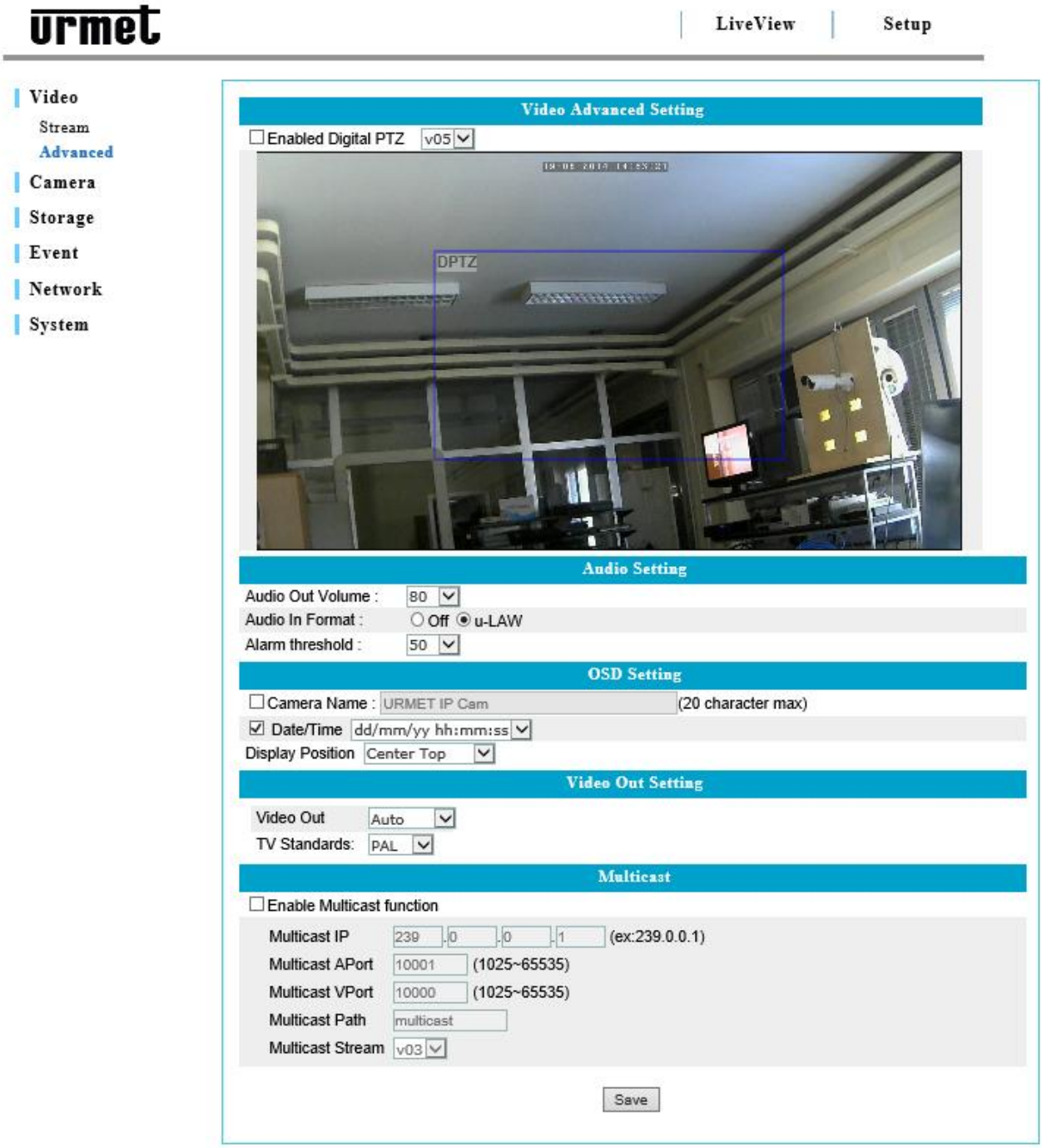


5.2 GENERAL VIDEO SETTINGS

The IP camera supports up to 6 different video streams at the same time. Use Live stream window to see the video streams and modify settings. Video streams can be H.264 or Motion JPEG, depending on user configuration.

URL	Indicates stream name; input a name to indicate the kind of stream you are using.
Resolution	You can set a different video resolution for different video devices. Please note high resolution requires higher bandwidth.
Encode type	Select **H.264** or **MJPEG** encoding for the stream in use. H.264 compression is the best compromise between video quality and bandwidth.
Frame Rate	Set the number of frames per second. For better video quality set an higher frame
GOP	**GOP** is short for "Group of Pictures". GOP is a group of consecutive pictures composing an encoded video stream. We suggest to keep the default parameters.
JPEG Quality	Value ranging from 1 to 88; an higher number indicates a better video quality.
Video mode	[**CBR**]: short for “Constant Bit Rate”, to be used in limited band condition [**VBR**]: short for “Variable Bit Rate”, used to adapt the bit rate to bandwidth to improve video quality [**Enhanced CBR**]: limits the video stream bit rate within two defined limits. To be used in limited band condition [**Enhanced VBR**]: sets the higher VBR bit rate. To be used with broadband
Bit Rate(k)	Bit rate used for video transmission.
Bit Rate Max (k) threshold	Sets the higher bit rate for both Enhanced CBR and Enhanced VBR.
Video delay	Only in Enhanced CBR condition, sets the maximum time (milliseconds) during which the maximum bit rate can be used.
Quality	Sets video stream quality: an higher value indicates higher quality. The minimum threshold is set through Min/Max Quality parameters.
MaxQuality	Sets video stream maximum quality threshold. 51 indicates the best quality.
MinQuality	Sets video stream minimum quality threshold. 1 indicates the worst quality.

5.3 ADVANCED VIDEO SETTINGS



- **Digital PT**:
  Use **Digital PT** function to enable pan and tilt (ration) effect within a selected area. This function is enabled on streams 5 and 6 (these streams will be displayed after selecting **Stream page** on **Video** menu).

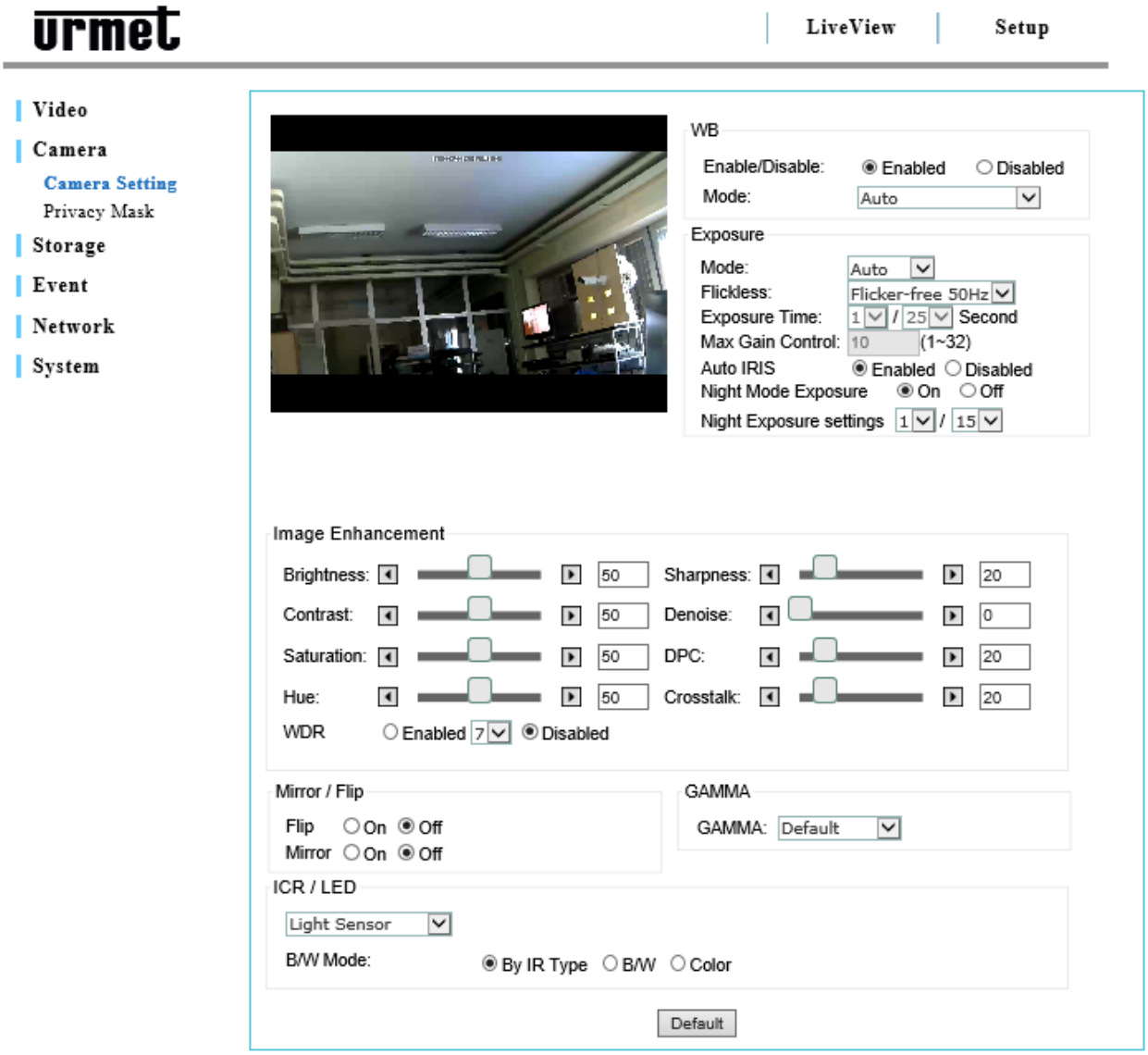
- **Audio**
  Audio Input source: select a microphone or other audio input device as source (Please note this function may be different depending on the device hardware features).
  Audio output volume: use this function to adjust audio output volume.
  Audio Format: select audio compression format “AAC”, “u-LAW” or “Off”. For 3GPP devices (IPhone or other smartphones) with access to the network using NVR surveillance software, “u-LAW” format is suggested.

- **OSD settings:**
  Device name: input a device name typing in the blank field, max 20 digits.

- **Date / Time**:
  Displays date and time on the video stream transmitted from the IP camera.

- **Save:**
  Press “Save” to save settings changes.

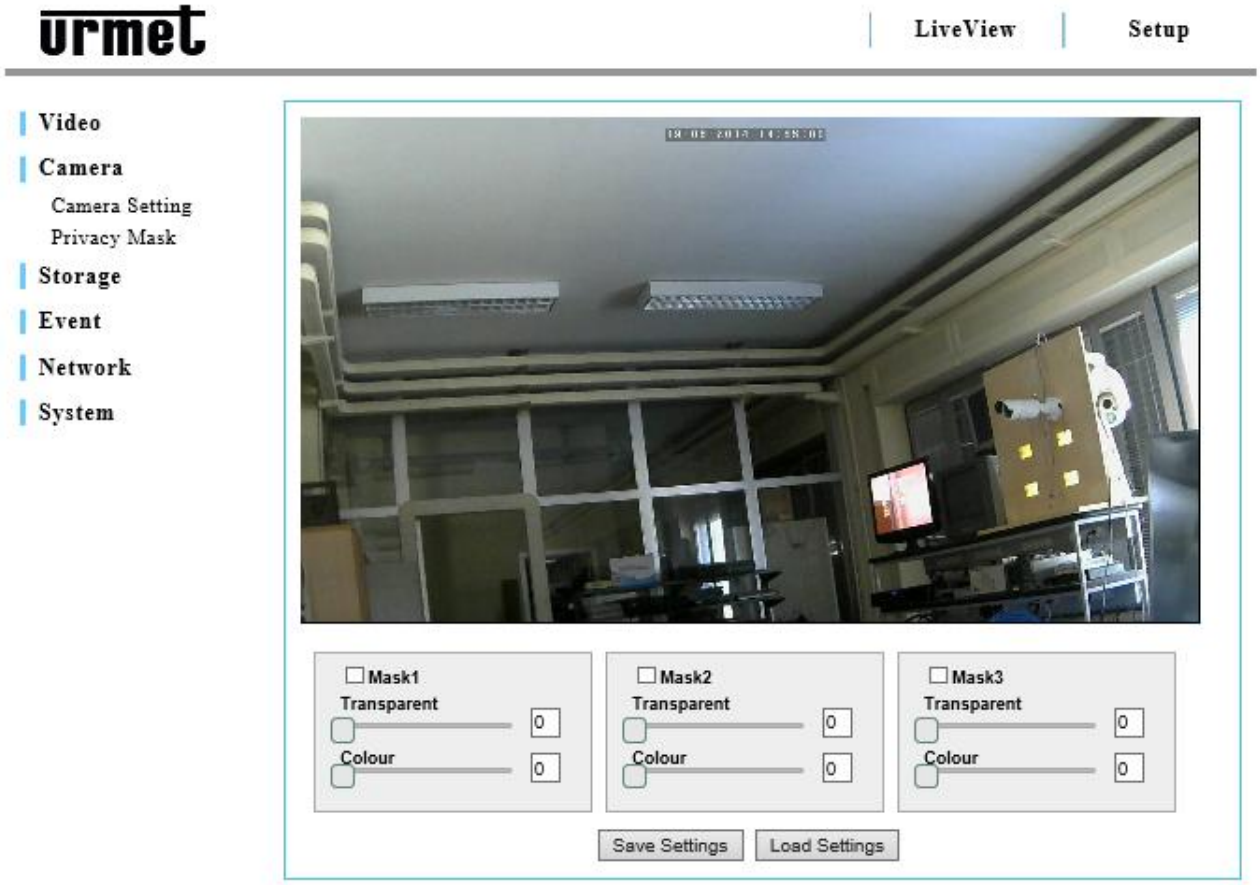
5.4 IP CAMERA CONFIGURATION



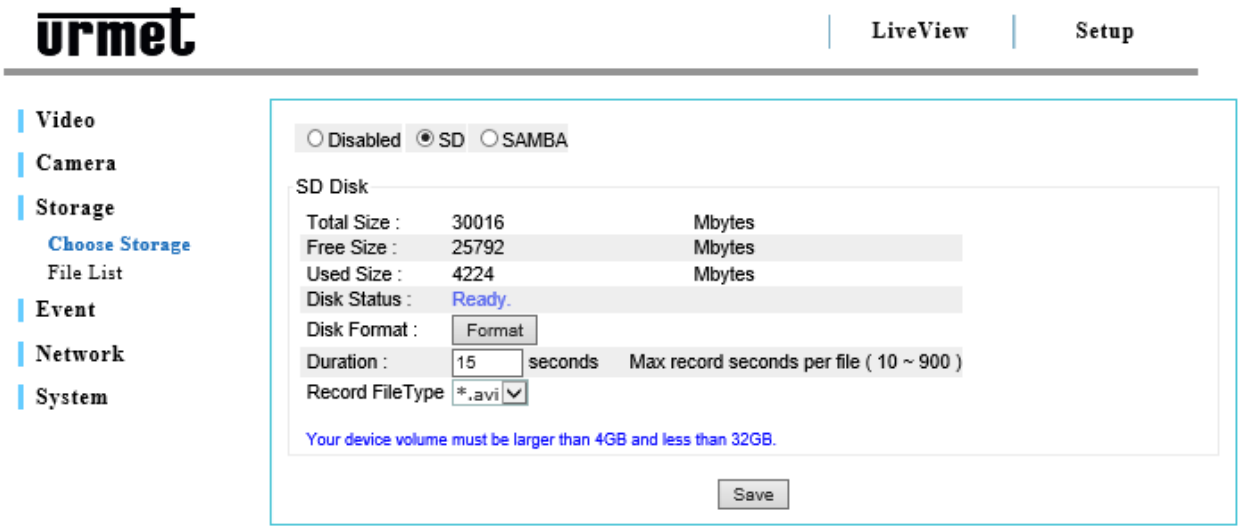
WB (White Balance)	Enables and disables white balance regulation. "**Enabled**" balances the light in bright and dark conditions to enhance image uniformity.	
Exposure	Exposure settings according to brightness, frame rate and bandwidth. Available parameters are **Auto, 50** and **60 kHz**. **Auto** is suggested. Exposure time, gain and diaphragm can also be regulated.	
Image improvement	Image settings can improve image quality.	
Mirror / Flip	Enable/disable these functions if the camera installation requires the image to be turned horizontally or vertically.	
Gamma correction	Regulates gamma correction according to light condition. We suggest not to change this setting.	
ICR / LED	**Auto ICR**	Turns on ICR (IR mechanic filter) according to light sensor activation. This setting is suggested.
		Coordinates light sensor activation and PIR motion sensor.
		Turns on ICR when PIR detects motion.
		Timer: sets an ICR limited working time.
		GPIN: turns on ICR according to a wired input status.
	Manual ICR	Day: turns off ICR during the day.
		Night: turns off ICR during the night.
	B/W mode	IR (Auto): enables b/w mode when infrared light is on.
		B/W: enables black and white image.
		Color: enables color image.

5.5 PRIVACY

Selecting a “privacy” area, it will be obscured from video recording. The device supports up to 3 different privacy areas. To enable privacy area, thick the box after selecting the area with the mouse, then “**Save settings**” to save changes.



5.6 MEMORY CONFIGURATION



5.6.1 SELECT MEMORY

Displays the supported Micro SD card parameters. The card contains live recordings and pictures with the following recording settings.

Please note:

When a Micro SD card is inserted, restart the camera to detect it.
Detection time from 20 to 120 seconds depending on Micro SD class.
Before inserting the Micro SD card, format it via web user interface “Format” option or via smartphone APP (All files will be deleted permanently. Back up the files before formatting the card).

5.6.2 MICRO SD CARD FEATURES

Supports 4GB to 32GB Micro SD card.

5.6.3 RECORDING DURATION TIME

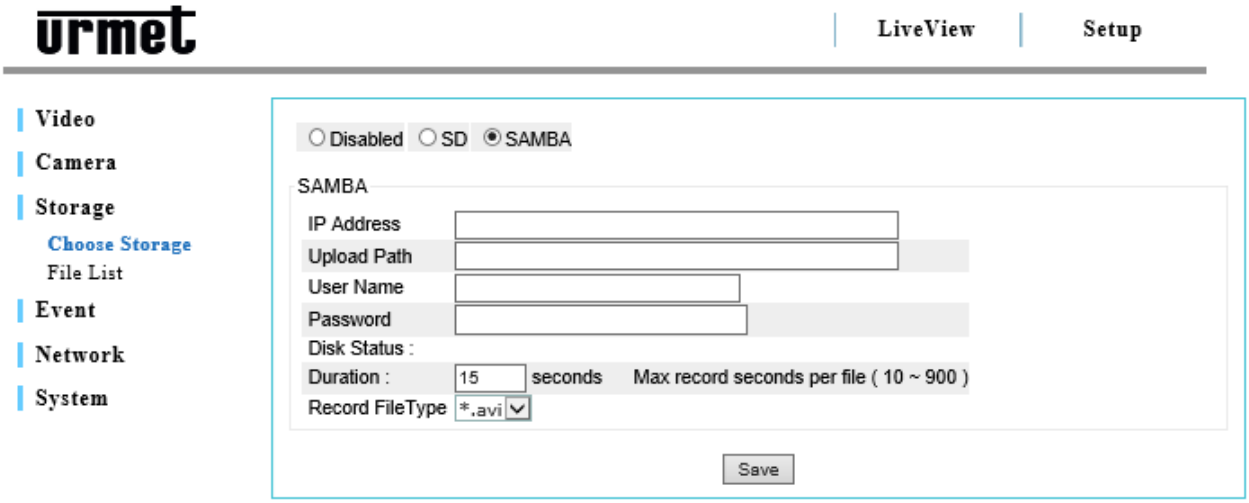
Sets the duration time (in seconds) of the recordings on Micro SD card.

The recordings can also be saved in a server file (f.i. SAMBA).

Before setting the IP address and the server file path on which the file will be saved, check the user has reading/writing rights for files management on the server file.

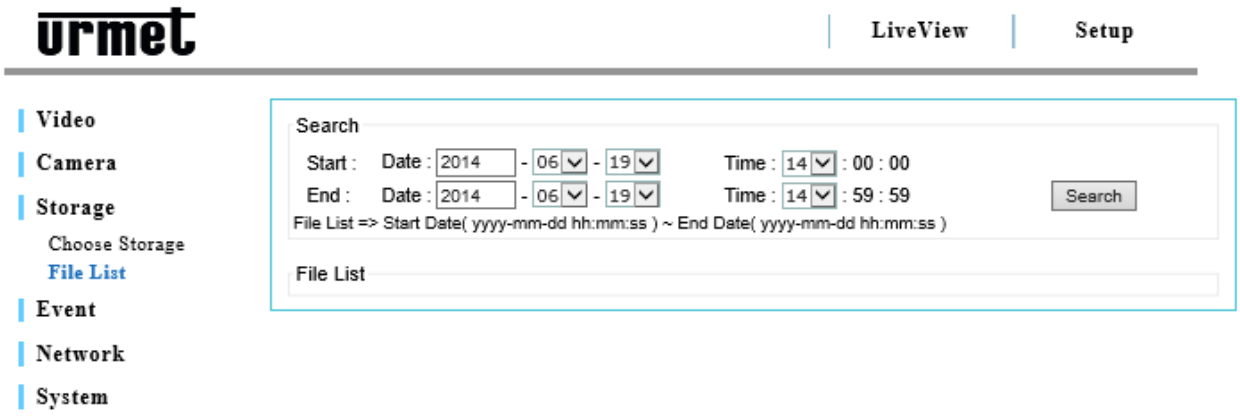
Notes:

- Video recording is cyclic. Once filled the available memory, new videos will be recorded over old ones.
- The used space on a new memory support cannot be 0 as the system uses a minimum memory space for its management.



5.6.4 **FILE LIST**

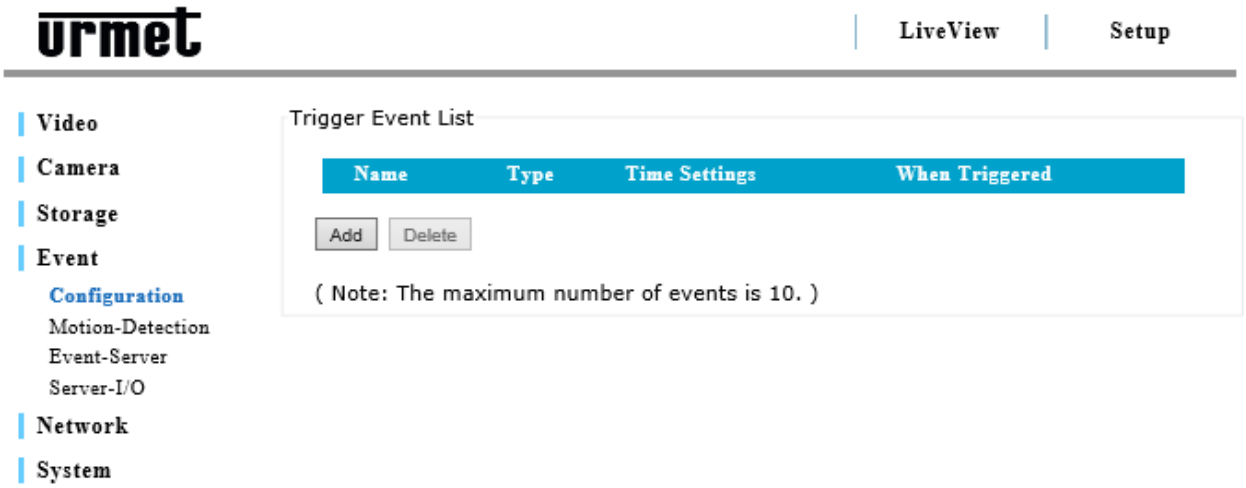
Displays the recorded files present in the Micro SD. To search a file, use the duration time (input starting and finishing time) and click “Search”.
A thick box will be displayed to delete the file.



5.7 EVENT SETTINGS

This function allows the user to customize the IP camera so that it carries out a specific action in a limited time, when a give situation occurs. For example: take a picture every time a motion is detected and send it via email.
The condition is selected on "**Kind**".
The time when the action must be carried out is selected on "**Time setting**".
The consequent action is selected on "**When detected**".

5.7.1 CONFIGURATION

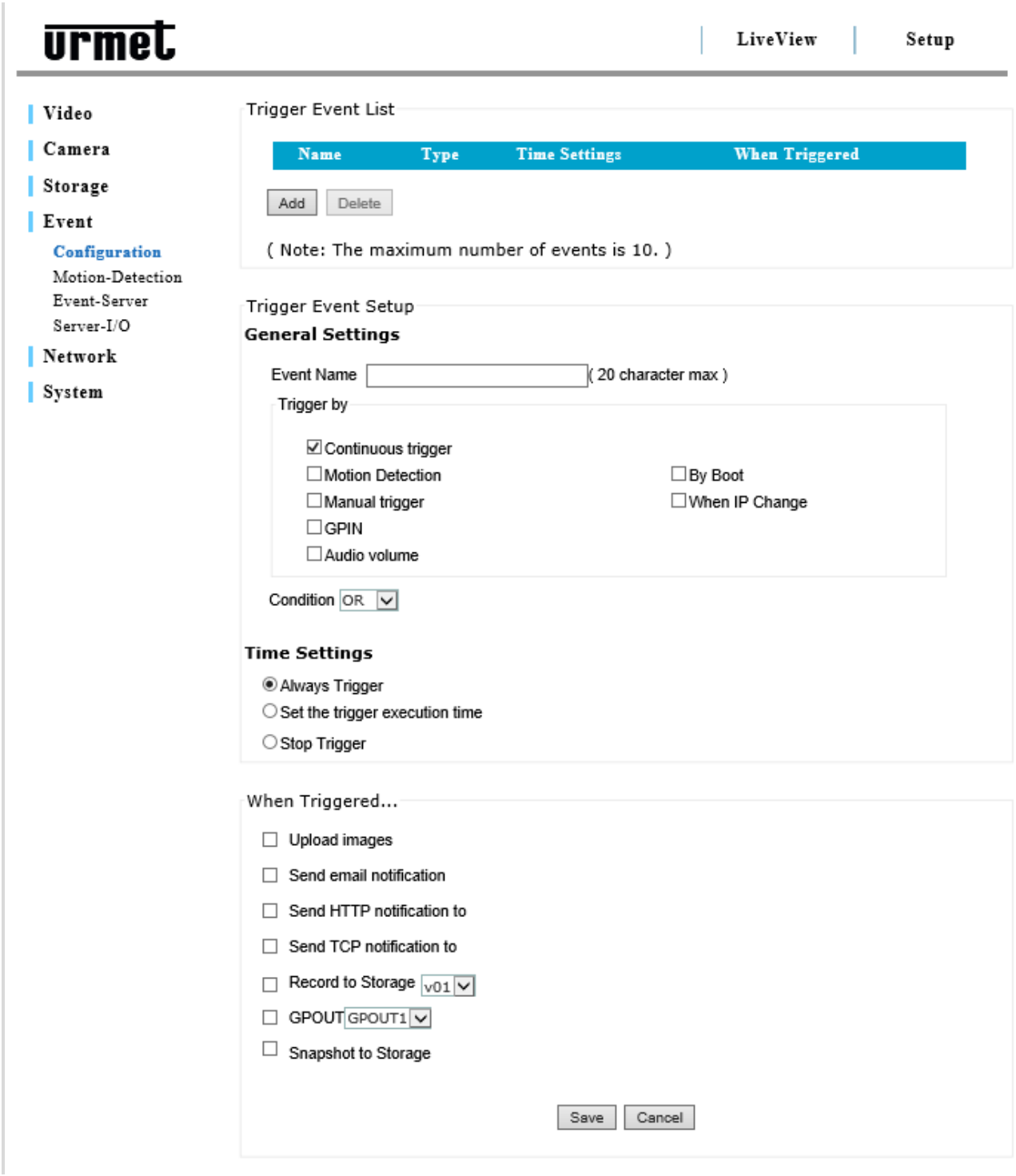


5.7.2 EVENT LIST

Displays the list of events saved.

- **Add:** adds a new event. To set a new event, click "**Add**" on the configuration page to show the available settings. Please note maximum 10 (ten) events are supported.
- **Delete:** deletes an event, click on it to select then "**Delete**".

5.7.2.1 Events settings



5.7.2.2 General settings

Event name: input a name to identify the event which will start an action under a specific condition.

Detect from: (Condition)

- **Continuous Detection:** the trigger condition is always enabled.
- **Motion Detection:** the action is carried out after a motion detection in some areas selected by the user.
- **Manual Enable:** manually determines the trigger condition, enabled on live display page. Click "**Manual trigger**" to enable.
- **GPIN:** the action is carried out when a trigger device connected to terminal 3 or 4 is turned on.
- **Start:** the action is carried out when the camera is turned on or restarted. This option is useful to detect unexpected connections.
- **IP change:** notifies a change of the camera IP address.

5.7.2.3 Time settings

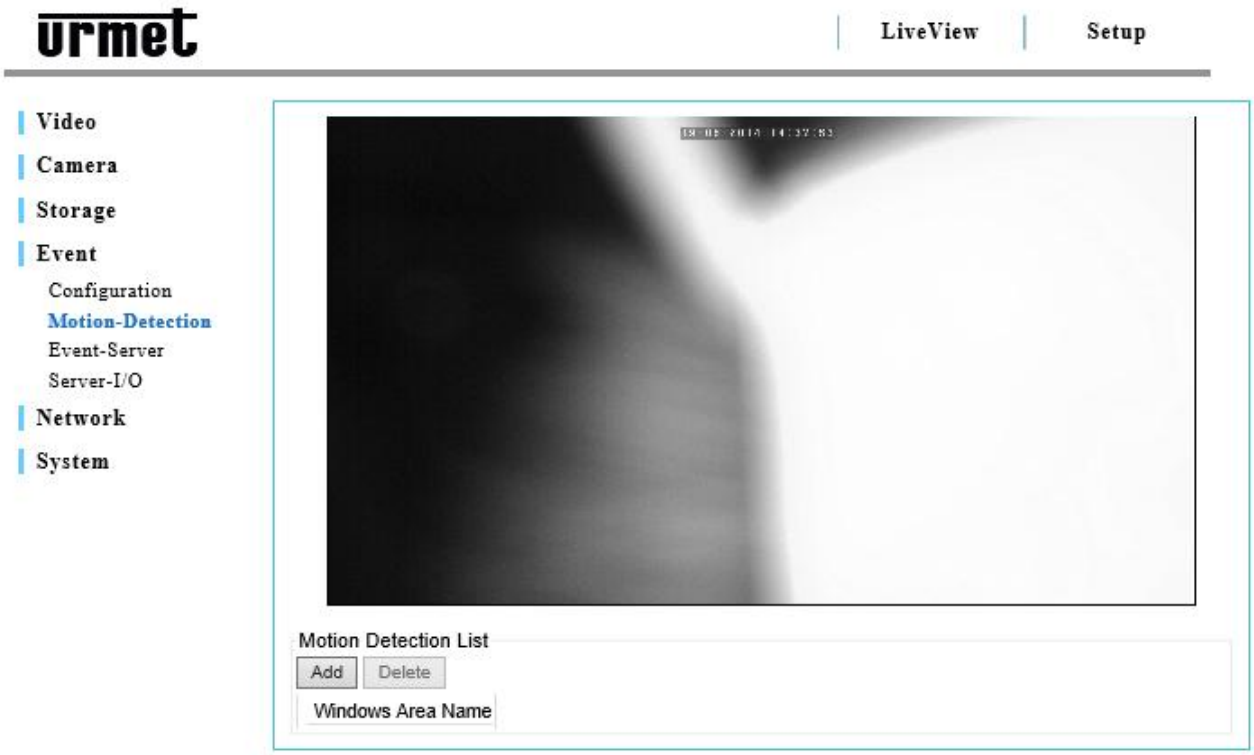
- **Always:** IP camera is always ready to detect the selected condition.
- **Event duration time:** carries out the action for a selected duration time. Use the mouse to select date and time.
- **Stop:** disables any action. Even under the selected condition, the IP camera will not carry out any action.

When event occurs (carries out an action**)**

- **Send Picture:** sends the pictures to an FTP server.
- **Send e-mail notification:** sends an email to the address set in the network configuration.
- **Send TCP notification:** sends a text message to an HTTP port which is ready to receive the message or the command.
- **Send http notification:** sends a text message to a TCP port which is ready to receive a message.
- **Rec on storage memory:** records pictures on Micro SD card.
- **GPOUT:** under the selected condition, enables a device connected to terminal 1 and 2.
- **Picture on storage memory:** saves pictures on the selected memory support (see par. 5.2)

Please note:
To configure FTP server, emails and TCP settings refer to network configuration in the following section Event-Server.

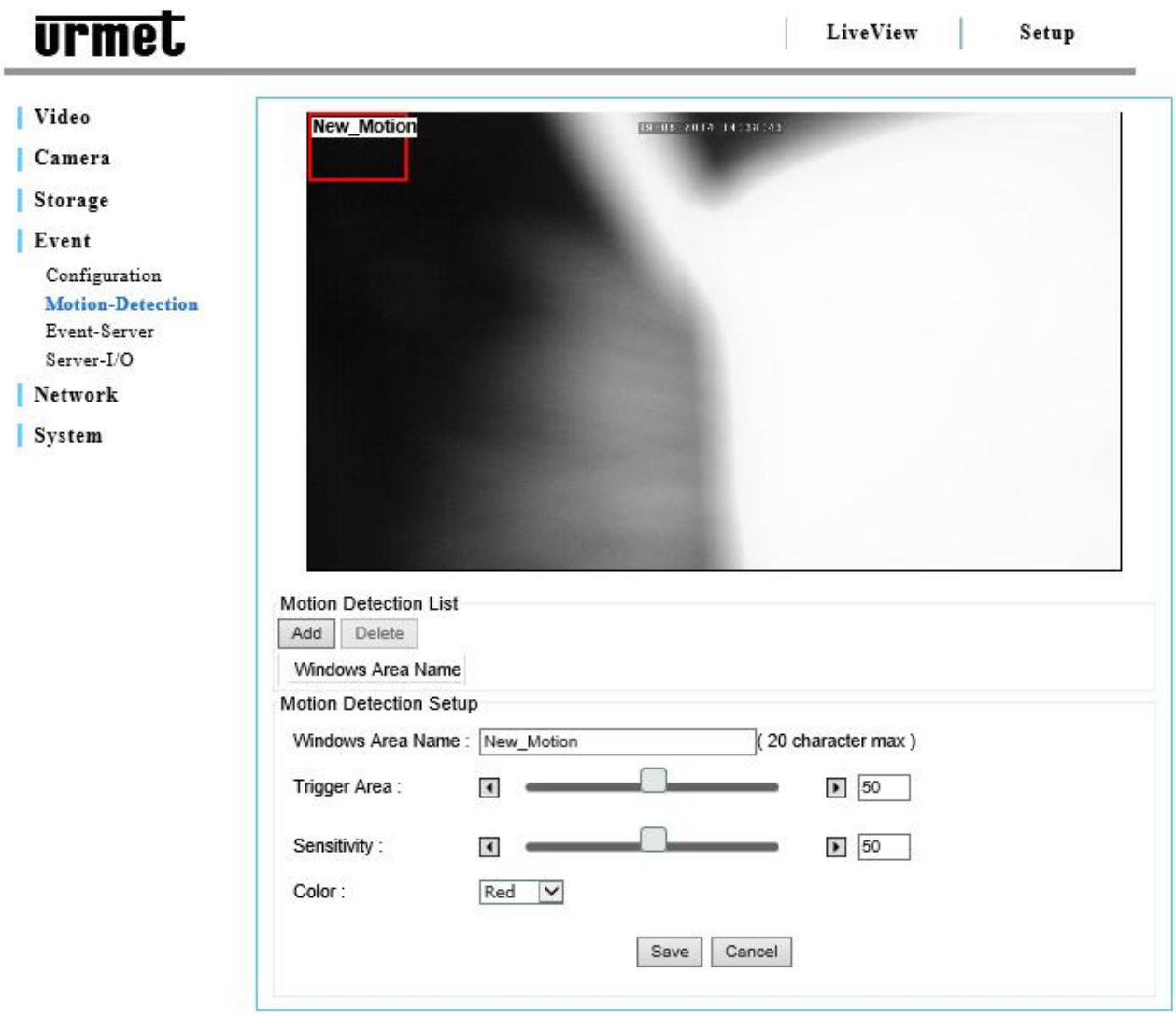
5.7.3 MOTION DETECTION



Video motion detection generates an alarm signal every time a motion starts or stops within the picture.
Up to 3 Inclusion/Exclusion windows can be configured.
When configured, the detection window will be displayed in the available trigger conditions list and can be linked to a subsequent action.

Please note:
Motion detection function might influence other contemporary events. Do not set OSD date and time on the detection window.

5.7.4 MOTION DETECTION LIST



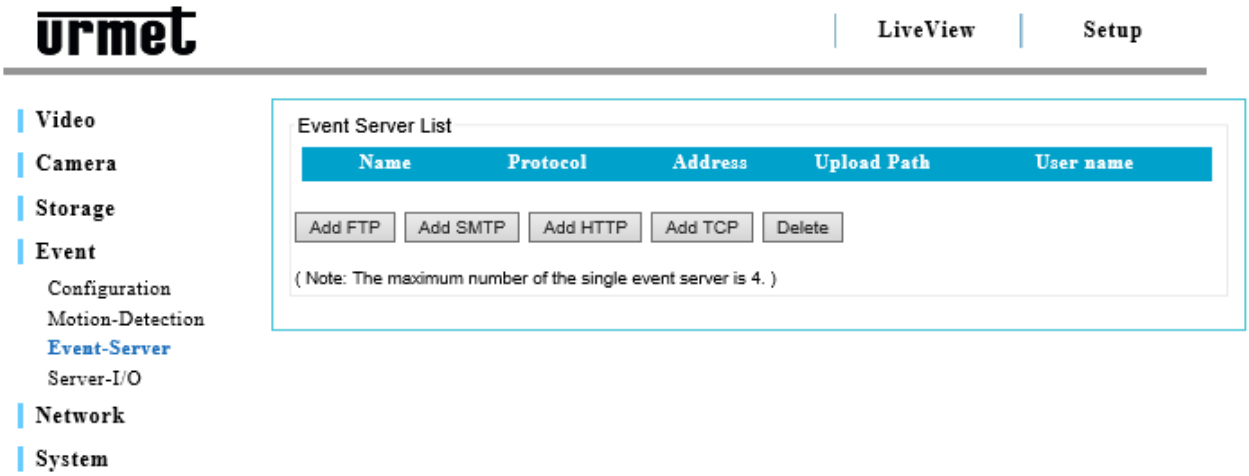
- **Add**: up to 3 different areas can be selected. Each one will be identified with a different color: red, green and blue.
  Pressing **Add** the minimum Motion detection area will be highlighted. You can enlarge it or move it to cover the area of interest.
- **Delete**: from "**Motion detection**" list, select the name of the area then click "**Delete**".
- **OSD On/Off:** Select "**OSD On**" to display on the screen that Motion Detection function is enabled.

5.7.5 MOTION DETECTION SETTINGS

- **Area Name:** input a name for the area.
- **Sensitivity:** values from 0 to 100; sensitivity grows with higher values.
- **Color:** choose a color (red, blue or yellow) for the area where motion detection is enabled.
- **Save:** click "**Save**" to save changes.
- **Delete:** click "**Reset**" to return to default settings.

5.7.6 EVENT SERVER

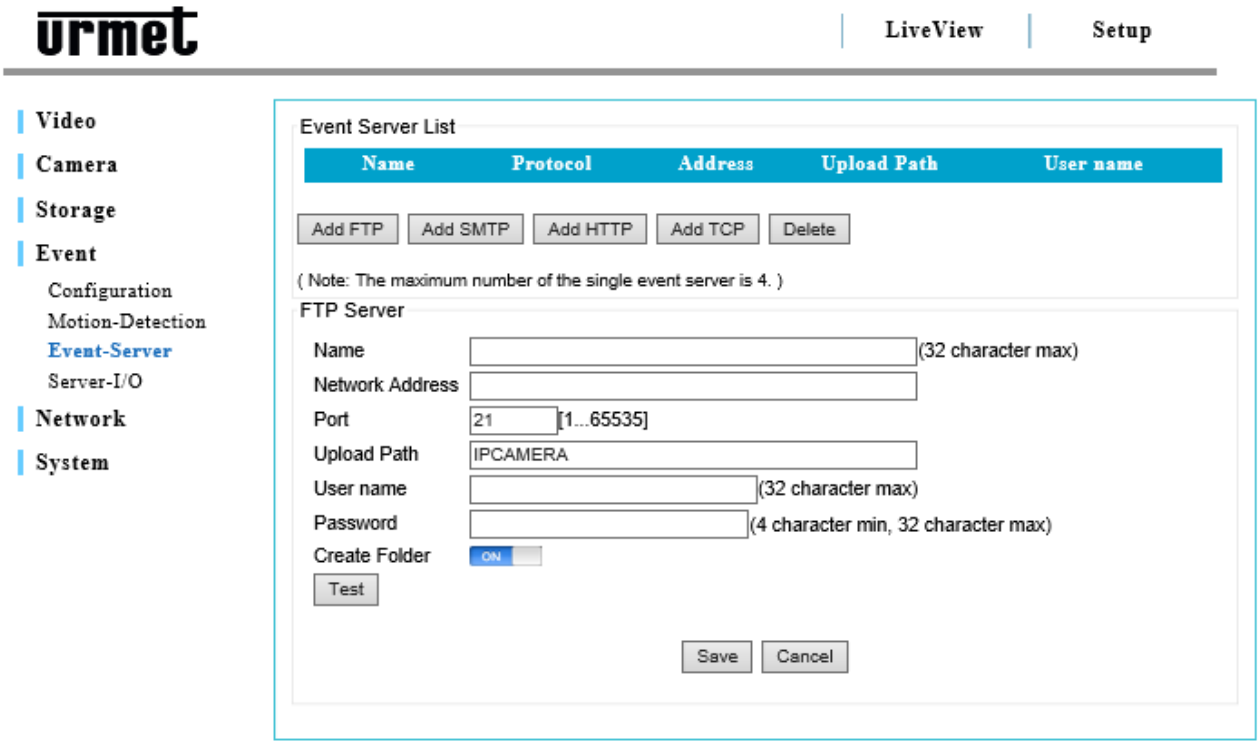
Event Server are designed to receive pictures and/or notification messages. Use **Settings > Event > Event Server** to configure camera Event Server and input the required information for the selected server.



- **Add FTP:** adds an FTP website to send the pictures to.
- **Add HTTP:** adds an HTTP server to send text messages to.
- **Add TCP:** adds a TCP port to send text messages to.
- **Add SMTP:** adds an email address/server to send emails to.
- **Delete:** from "**Event Server**" list, select a server name and click "**Delete**".

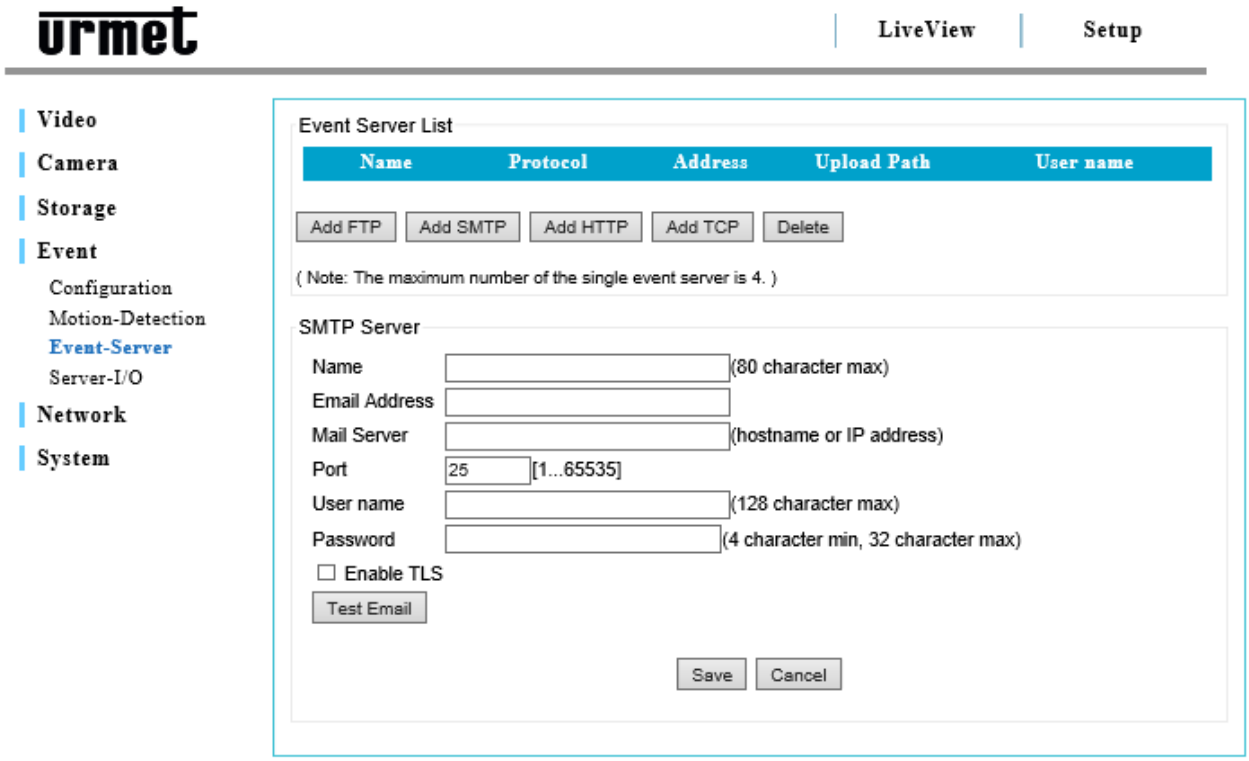
After adding FTP, HTTP, TCP or SMTP server, an information window will pop up where you can input the required information.

5.7.7 FTP SERVER



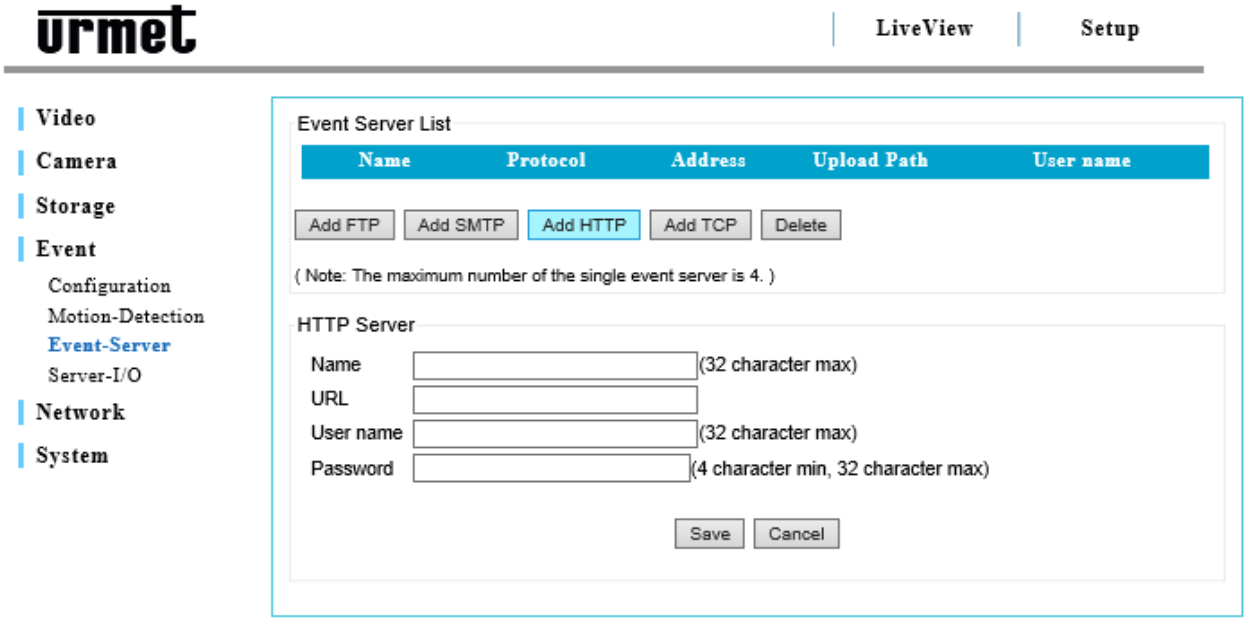
5.7.8 SMTP SERVER

Email sending configuration parameters.



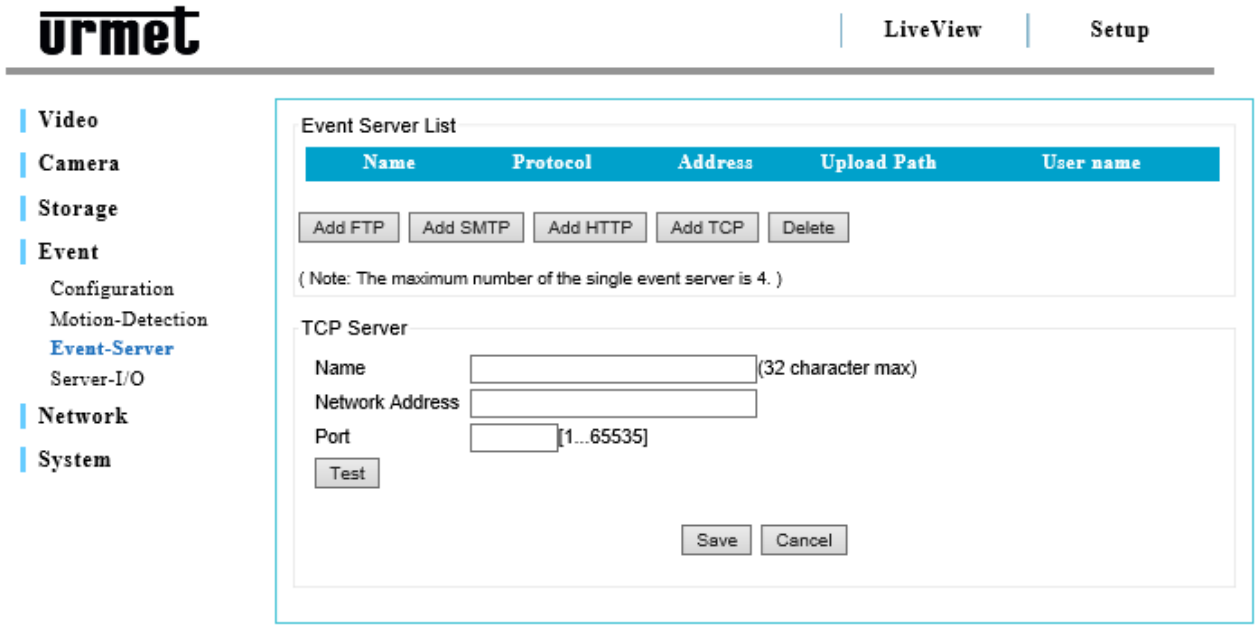
5.7.9 **HTTP SERVER**

Notification messages receiving configuration parameters.

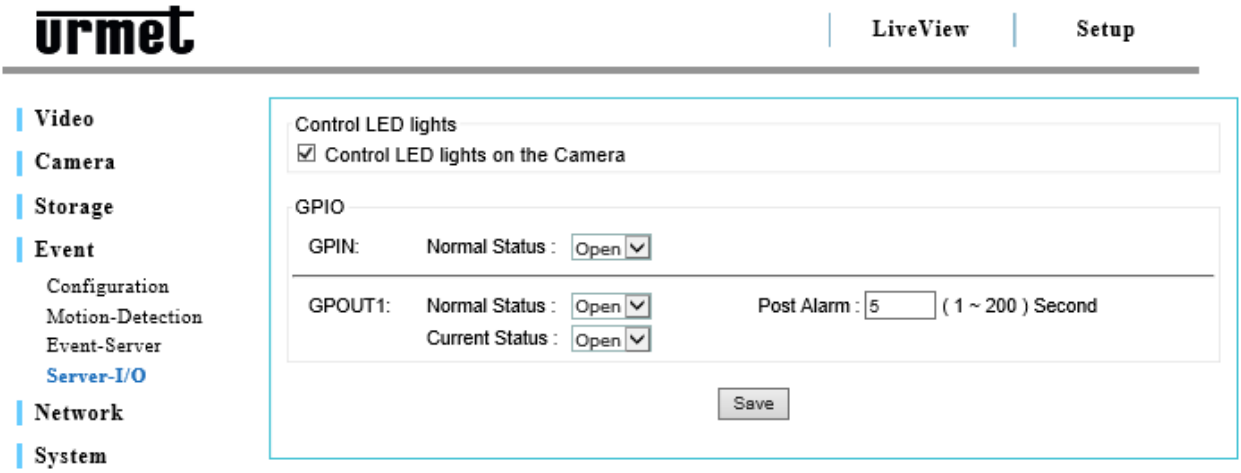


5.7.10 **TCP SERVER**

Notification messages receiving configuration parameters.



5.7.11 I/O SERVER



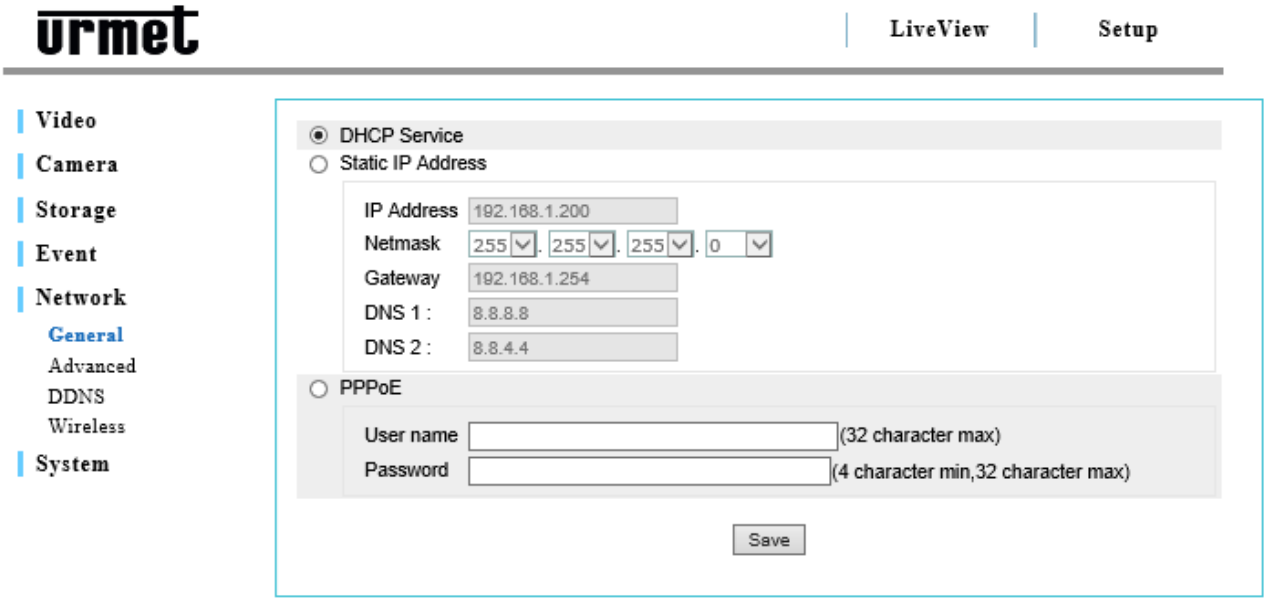
- **GPIO**: configures Open/Close idle status of the input and output circuit.
  GPIN: Idle Status: select "**Open**" or "**Closed**" for GPIN circuit idle status;
  GPOUT1: Idle Status: select "**Open**" or "**Closed**" for GPOUT circuit idle status.

5.8 NETWORK SETTINGS

Use "Network" configuration page to modify or add advanced settings depending on the network in which the IP camera is installed.
Different from "IP Discovery" software which is useful for initial configuration of the network, the "Network" page is a flexible tool to obtain the best performance of the network.

- **General:** IP configuration basic settings.
- **Advanced:** includes Time Server, Hostname and Service Port.
- **DDNS:** access to IP camera with domain name instead of IP address.
- **Wireless (Optional):** wireless network settings.

5.8.1 GENERAL



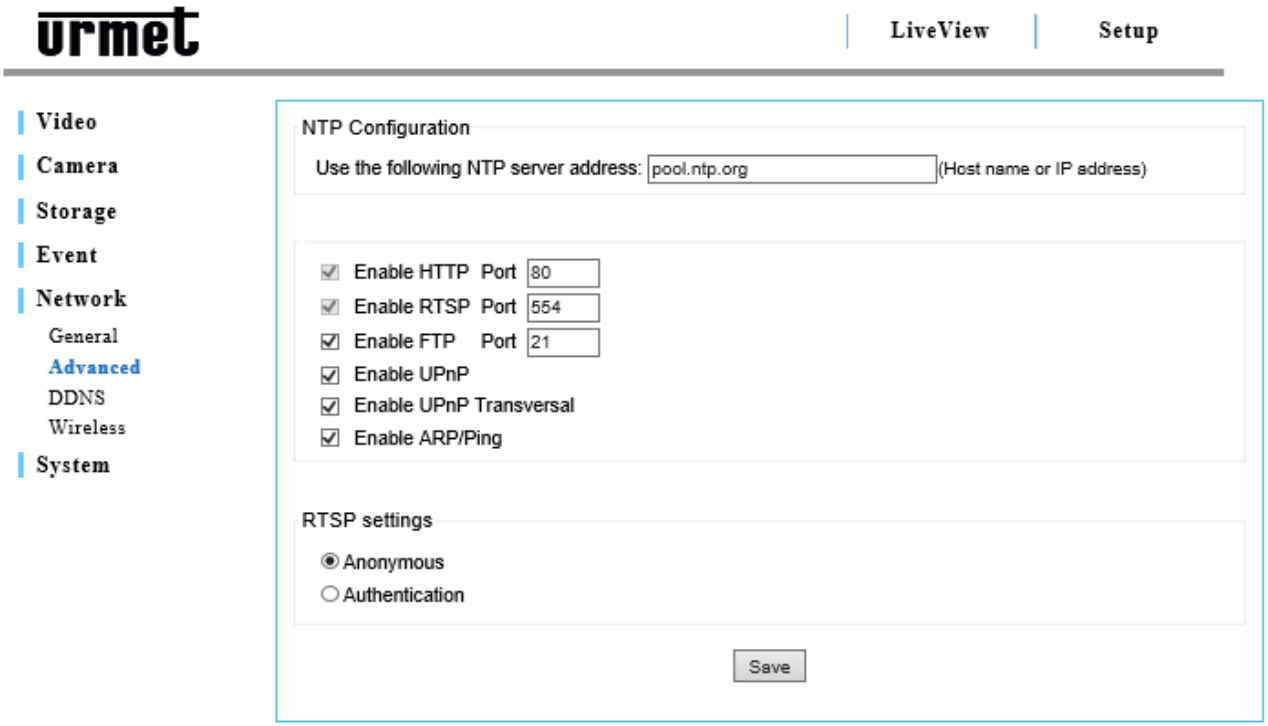
- **DHCP:** obtains an IP address via DHCP.
  Dynamic Host Configuration (DHCP) protocol allows the network administrator to centrally manage and automatically allocate IP addresses on a network. DHCP server is often used to allocate a dynamic IP address but it is also possible to use it for static IP address associated with a specific MAC address.

- **Static IP Address**

  IP address: input a specific IP address for the IP camera.
  Netmask: input IP camera subnet mask.
  Gateway: input the IP address for the Gateway.
  DNS1: input the IP address for the first group of DNS.
  DNS2: input the IP address for the second group of DNS.

- **PPPoE:**
  Use PPPoE function to connect the IP camera directly to ADSL modem for direct access to the internet. To enable, thick PPPoE box and input user name and password.
  User name and password for direct connection via ADSL modem are provided by the Internet Service Provider (ISP), f.i. National Network Operator. Contact the Network Operator for further information about this service.

5.8.2 ADVANCED



- **NTP Configuration**
  Use the following NTP server address. Use this field to input NTP server host name or IP address.
  Please note:
  For users who choose PPPoE to access the network: every change of the “Network address” on “NTP Configuration” can freeze the screen for some seconds as the local ISP (Internet Service Provider) has to allocate a new IP address and new values for HTTP, RTSP and FTP port. This happens every time the NTP is changed via PPPoE.

- **HTTP**
  The default number (80) of HTTP port can be changed by the user. This is useful for secure mapping of the port.

- **RTSP**
  RTSP protocol allows a connection client to activate a H.264/MJPEG stream. Thick the box to enable the server and input the RSTP port number. Default number is 554. H.264/MJPEG video streams will not be available if this service is not enabled.

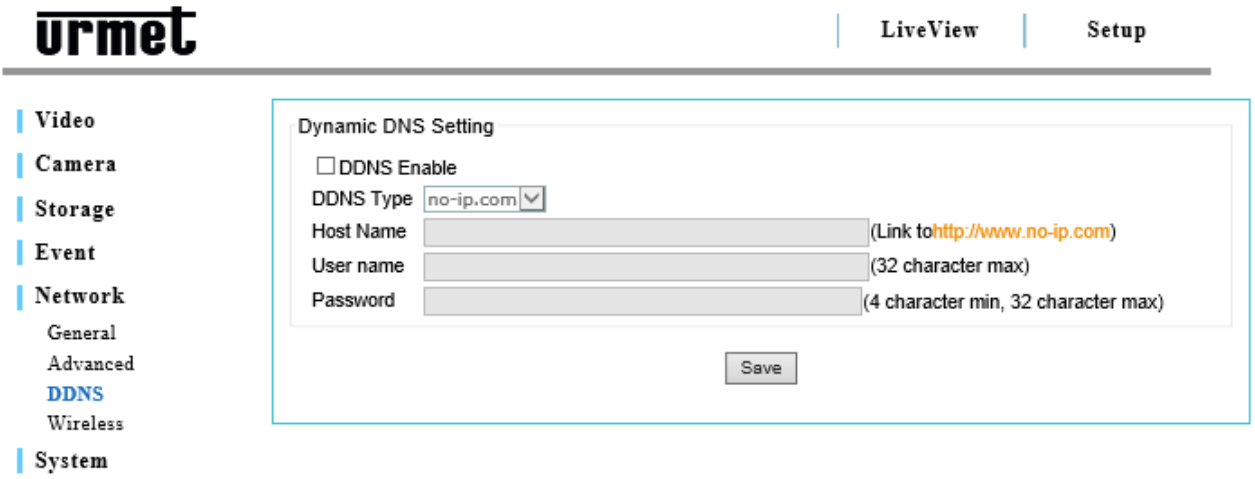
- **FTP**
  Use FTP server to upload firmware upgrade versions and user applications. Thick the box to enable this service.

- **ARP / PING**
  ARP/PING services are a further tool for the user to detect the status of IP camera. For ARP/PING related commands contact the network administrator.

- **RTSP Settings**

Anonymous: access the RTSP stream without authentication.
Authentication: requires user name and password authentication to access the RSTP stream.

5.8.3 DDNS

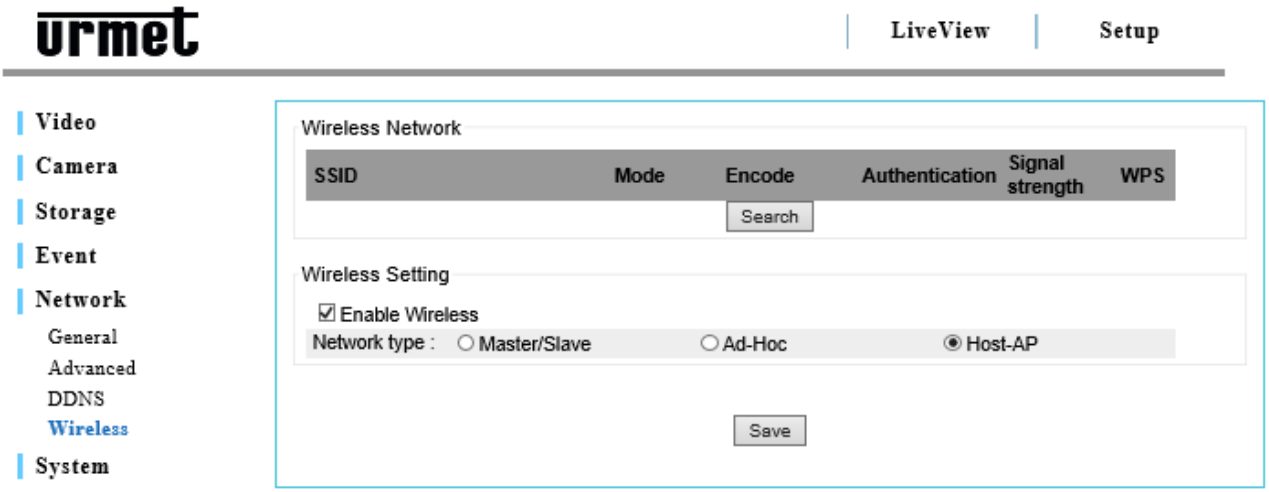


Use DDNS (Dynamic Domain Name Service) function to access the IP camera with a name (f.i. http://www.mycamera.com) instead of an IP address.

To use DDNS function you need first to register a domain name with an external provider such as DynDNS (www.dyndns.org).
Since DDNS function forwards only the information exchanged between Host server and IP camera, user name and password to enable this function have to be provided by the external provider.

Please note:
Contact the service provider for further information about the domain name. Some providers charge the registration while some others offer it free of charge. The user can choose the provider for this service.
To use DDNS function the IP camera must already have an internet access.
For further information about IP camera internet access contact the network administrator and refer to “Port forwarding” paragraph of this manual which explains the main issues about this topics.

Wireless



User must follow this procedure for the first Wireless network connection:

1. Connect the camera to an hub/switch/modem/router using an Ethernet cable.
2. Select “Enable Wireless” to access wireless settings
3. Click “Save” to save the changes and disconnect the Ethernet cable from the camera.

5.8.4 **WIRELESS SETTINGS**

Click “Search” to find the available Access Point on the network.

- **Enable/Disable:**
  Wireless function is disabled by default, enable it to use it instead of a wired connection.

- **Network kind:**
  - **Master/Slave:** thick this option to enable connection to an Access Point.
  - **Host-AP**: thick this option to enable connection to Wi-Fi devices such as PC or mobile phones. You will be able to configure the camera without connecting to an Access Point.

- **SSID**
  When using Wireless function it is necessary to allocate an Access Point for connection. Usually a router is used as Access Point.
  SSID identifies the network Access Point. It usually is a number or a name used by the router when Wireless function is enabled.

- **Security:**
  The Access Point (wireless router) uses a cryptography key to authorize and authenticate client connections when using wireless function.
  Choose the cryptography method among: WPS, WEP, WPA-PSK or WPA-PSK.

5.8.5 **NETWORK SETTINGS**

DHCP: obtains an IP address via DHCP.
Dynamic Host Configuration (DHCP) protocol allows the network administrator to centrally manage and automatically allocate IP addresses on a network. DHCP server is often used to allocate a dynamic IP address but it is also possible to use it for static IP address associated to a specific MAC address.

- **Static IP Address**

- **IP address:** input a specific IP address for the IP camera.

- **Netmask:** input IP camera subnet mask.

- **Gateway:** input the IP address for the Gateway.

- **DNS1:** input the IP address for the first group of DNS.

- **DNS2:** input the IP address for the second group of DNS.

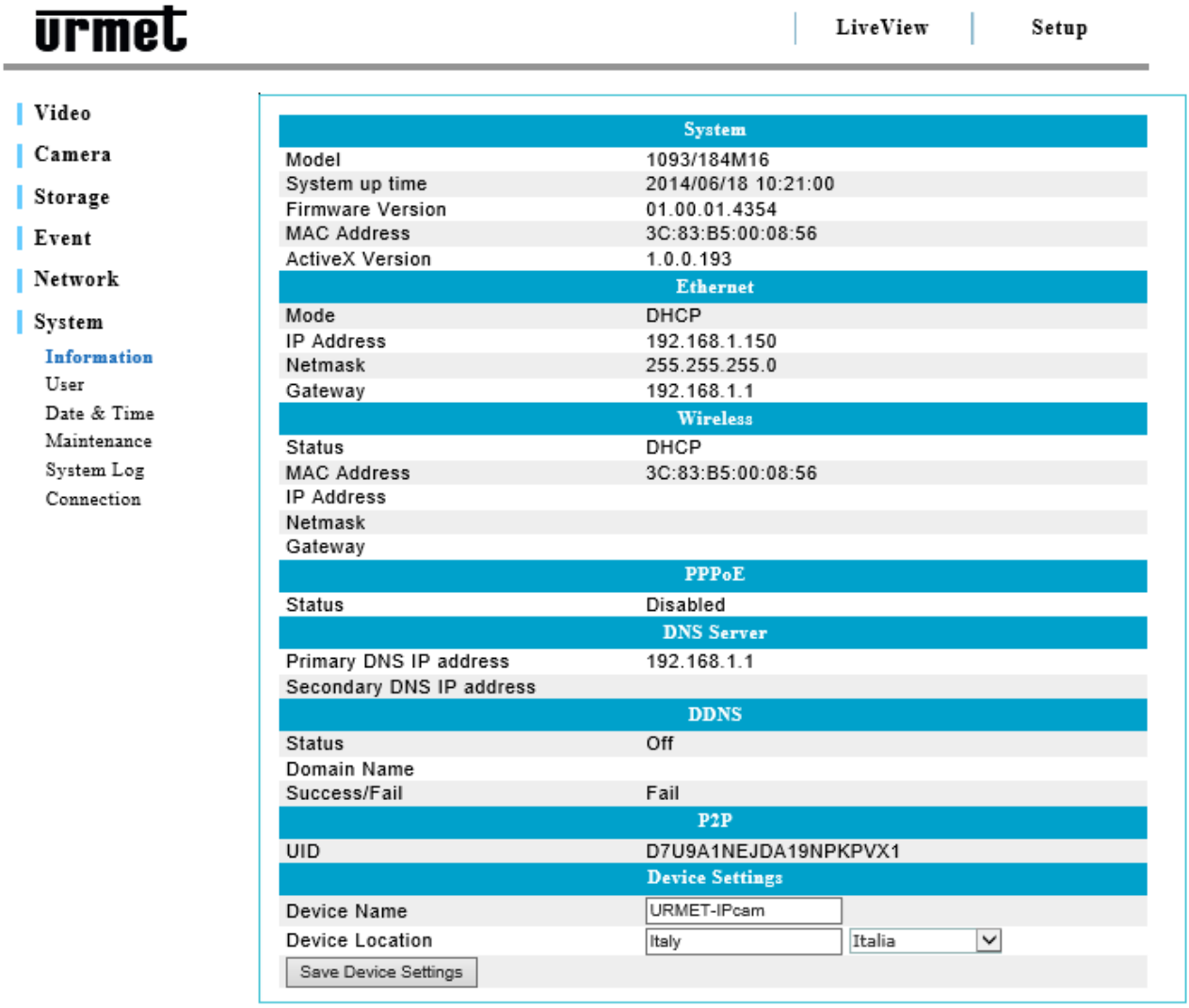
- **Save:** saves changes.

- **Reset:** returns to default parameters.

Please Note:
Contact the network administrator for the best management of wireless connection and the cryptography method used on the network.

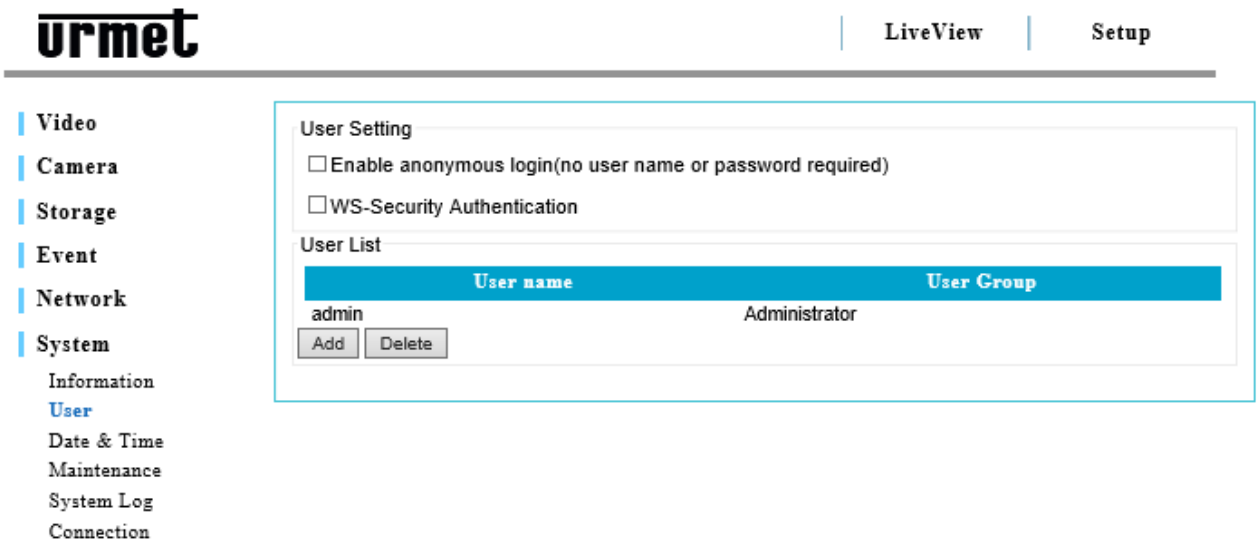
5.9 SYSTEM CONFIGURATION

5.9.1 INFORMATION



System configuration page shows information about the current status of the IP camera. This is very useful for quick consultation of information without accessing the configuration pages of each function of the camera.

5.9.2 **USER**



Use this page to configure one or more users/profiles to access to IP camera.

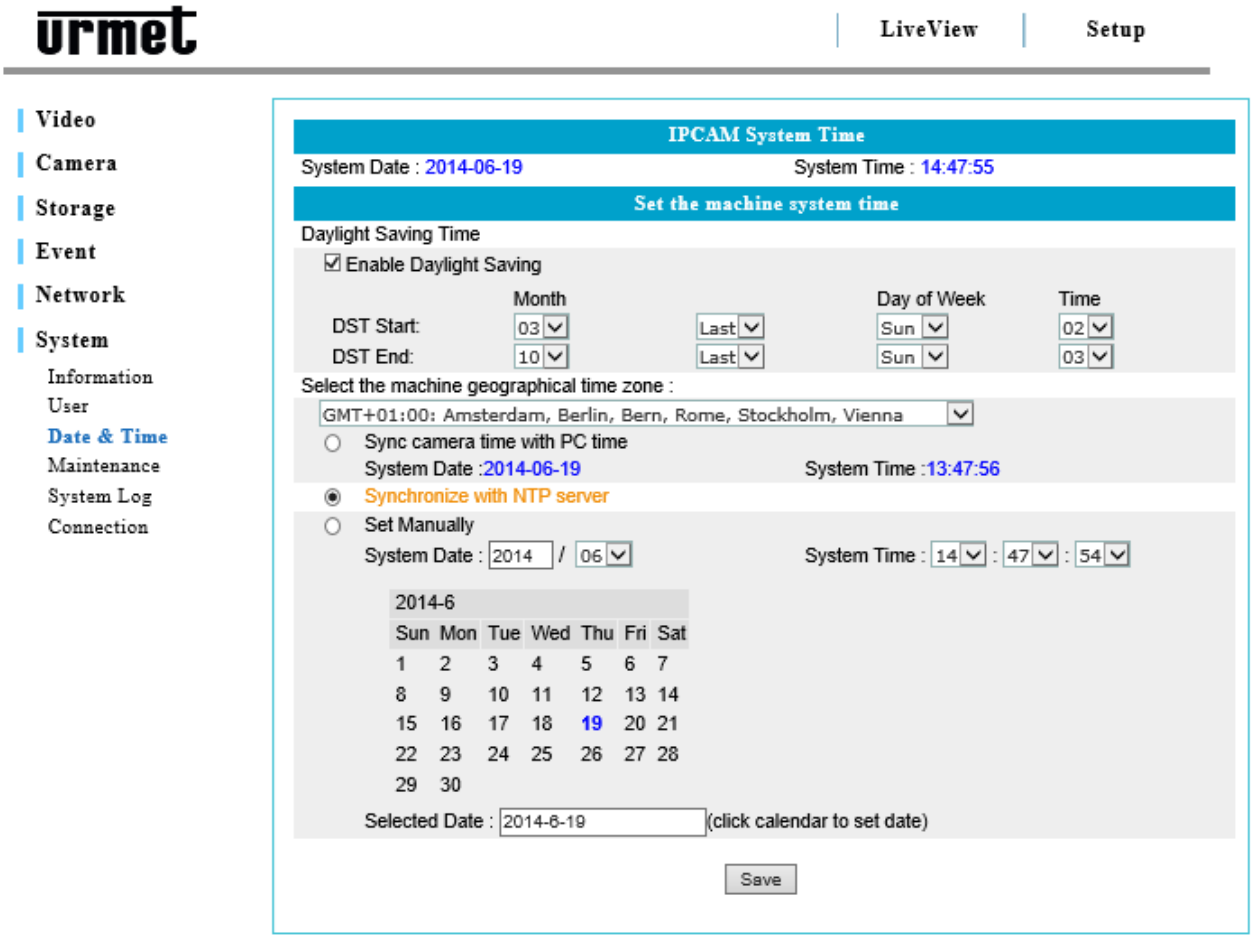
- **Enable Anonymous Login:**
  Thick "**Enable Anonymous Login**" box to enable unrestricted access to IP camera. Add new user then click "**Save**" to save changes.
  This option allows access to IP camera without requiring user name and password.

Note:
User can choose if authorization must be required for access to IP camera.

- **Add new user**
  Click "**Add**" to add a new user and input the required information then click "**Save**" to save changes.
  Administrator: allowed to view and modify IP camera configuration.
  Operator: allowed to modify only some parameters of IP camera configuration.
  Viewer: only allowed to view.
  Note: follow the instructions on user page to select user name and password.

- **Delete user**
  Select one name among user list then click "**Delete**" to delete it from the list, click "**Save**" to save changes.

5.9.3 **DATE &TIME**



Shows date and time of IP camera (24hs format).

5.9.4 **SYSTEM TIME SETTING**

Select automatic DST change, if needed.
Select day, week, month of change from standard time to daylight saving time (DST start, DST end).

Use **Sync Mode** to select time sync:

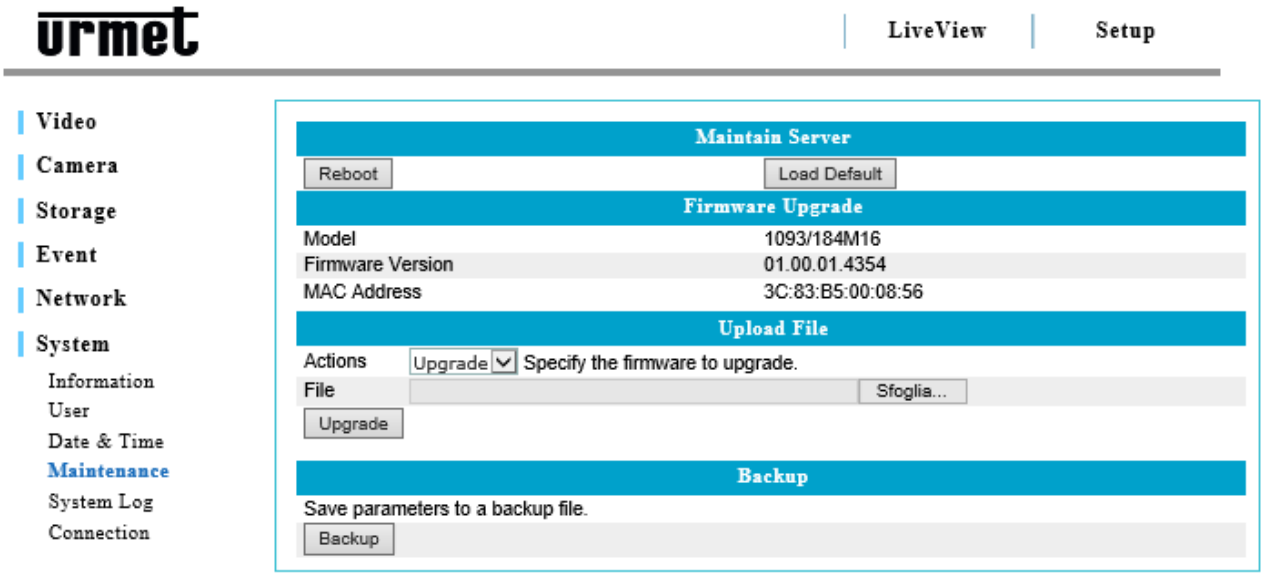
Sync with local time – sets time according to PC time.

- **Sync with NTP Server –** the camera receives time indication every 60 minutes from an NTP server.
- **Manual –** user can manually set date and time.

Note:
if a host name is used for NTP server it is necessary to add a DNS server in "Network settings" menu.

Click "**Save**" to save changes.
Click "**Reset**" to cancel and repeat the selection.

5.9.5 **MANAGEMENT**



Use "**Device Management**" page to modify the following options:

- **Restart:** restarts IP camera.
- **Default:** returns to default parameters all configurations but network settings. Use the hardware reset to return to default parameters network settings as well.
- **File upload:** upgrades the IP camera with new firmware. Select the file then click "Upgrade" to upload.
- **Backup:** select "Backup" to save current parameters on a file.

Please note:

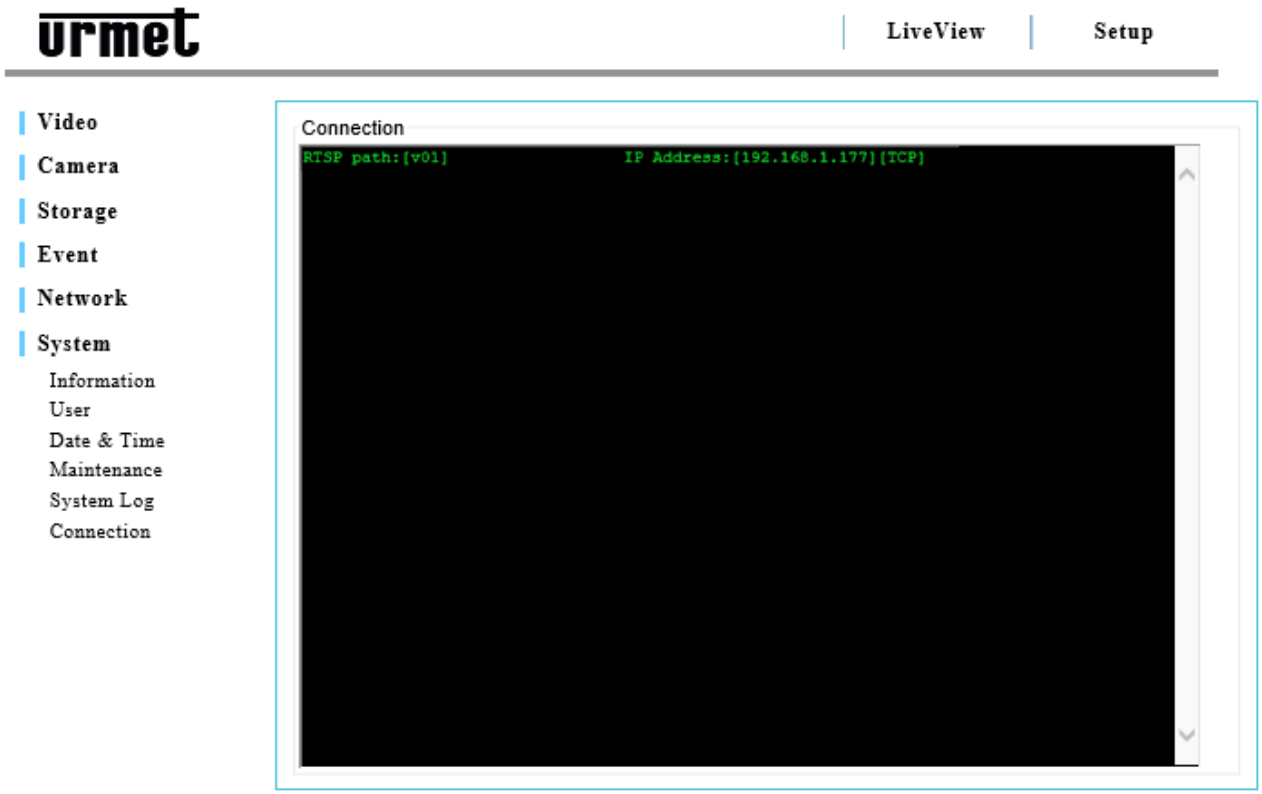
- After upgrading the IP camera to new firmware, do not restore the previous configuration backup file as this might affect the normal functioning.
- Carefully consider any change on IP camera settings before modifying them.

5.9.6 SYSTEM LOG

urmet
LiveView
Setup
Video
Camera
Storage
Event
Network
System
Information
User
Date & Time
Maintenance
System Log
Connection
System Log
Now loading...Jan 1 01:00:04 (none) syslog.info syslogd started: BusyBox v1.13.4Jan 1 00:00:16 (none) daemon.info init: starting pid 403, tty '': '/bin/sh < /dev/ttyS0 2>&1 > /dev/ttyS0'
Jan 1 01:00:16 (none) user.info arcmain: System initial.Jan 1 01:00:20 (none) user.info arcmain: Action-Close recording file.Jan 1 01:00:21 (none) user.info arcmain: System boot up.Jun 18 10:20:57 (none) user.info miniupnpd: SNet version startedJun 18 10:21:01 (none) user.info chpasswd: Password for 'admin' changedJun 18 10:21:01 (none) user.info chpasswd: Password for 'root' changedJun 18 10:21:01 (none) user.info miniupnpd: SNet version startedJun 18 10:21:10 (none) user.info arcmain: Action-Close recording file.Jun 18 10:21:15 (none) user.info miniupnpd: SNet version startedJun 18 17:27:15 (none) user.info arcmain: Action-Close recording file.Jun 18 18:46:30 (none) user.info arcmain: Action-Close recording file.Jun 18 18:56:38 (none) user.info arcmain: Action-Close recording file.Jun 19 07:43:51 (none) user.info arcmain: Action-Close recording file.Jun 19 07:43:54 (none) user.info arcmain: Action-Close recording file.Jun 19 07:43:56 (none) user.info arcmain: Action-Close recording file.Jun 19 07:44:00 (none) user.info arcmain: Action-Close recording file.Jun 19 07:44:01 (none) user.info arcmain: Action-Close recording file.Jun 19 07:44:05 (none) user.info arcmain: Action-Close recording file.Jun 19 07:44:07 (none) user.info arcmain: Action-Close recording file.Jun 19 07:44:10 (none) user.info arcmain: Action-Close recording file.Jun 19 07:44:12 (none) user.info arcmain: Action-Close recording file.Jun 19 07:44:15 (none) user.info arcmain: Action-Close recording file.Jun 19 07:44:17 (none) user.info arcmain: Action-Close recording file.Jun 19 07:44:21 (none) user.info arcmain: Action-Close recording file.Jun 19 07:44:22 (none) user.info arcmain: Action-Close recording file.Jun 19 07:44:26 (none) user.info arcmain: Action-Close recording file.Jun 19 07:44:28 (none) user.info arcmain: Action-Close recording file.Jun 19 07:44:31 (none) user.info arcmain: Action-Close recording file.Jun 19 07:44:33 (none) user.info arcmain: Action-Close recording file.Jun 19 07:44:36 (none) user.info arcmain: Action-Close recording file.Jun 19 07:44:38 (none) user.info

Use “**System Log**” to view all information about activities and modification of the device.
Actions are displayed in chronological order starting from the old ones. Scroll the list to find the required action.

5.9.7 CONNECTIONS



Use “Connections” page to view all active connections.

6 TECHNICAL SPECIFICATIONS

6.1 REF. 1093/184M11 SPECIFICATIONS

Main features:

- Video compression H.264 & MJPEG
- Resolution HD 720P,25 Frame per second
- ONVIF Compatible
- Up to 6 different video streams
- Infrared LED for night vision
- Micro-SD for local storage (*)
- Integrated Speaker & Microphone for bidirectional audio
- Wi-fi 802.11 bgn
- Plug & Play Connection to mobile devices (Android, iOS)

※Please note

(*)Suggested models: SanDisk – Kingston

Video & Camera			
Video profiles & Frame Rate	S1: 1280 x 720	25 FPS	H.264 / MJPEG
	S2: 640 x 360	25 FPS	H.264 / MJPEG
	S3: 320 x 180	25 FPS	H.264
	S4: 320 x 180	25 FPS	MJPEG
	S5: 160 x 96	25 FPS	H.264
	S6: 160 x 96	25 FPS	MJPEG
Bit Rate	128K ~ 6Mbits/sec (CBR/VBR configurable)		
Flash	16MB		
Network Performance	Up to 10 connections at the same time (max 5 in Cloud) Total band: 45 Mbps		
Video	6 different video streams H.264 & Motion JPEG VBR/CBR/GOP for quality/bitrate control Integrated Date/text on OSD RTSP URI		
Digital PTZ	From image area		
Sensor	1/4” CMOS		
WDR	Digital		
Minimum brightness	1 ~ 10,000 Lux		
Lens	f=3.6 mm F1.9		
Night&Day ICR	Auto (managed by program or light sensor) or Manual		
IR LEDs	8		
Image adjustment	Brightness, Saturation, Color, Contrast, Exposure, White balance, Rotation, Flip/Mirror, Automatic gain control		
Event	Trigger	Program, Motion detection, at restart	
	Action	Send picture via FTP, Save video and picture on Micro-SD card Email and TCP notification	
Local memory	Micro SD (min 4GB, max 32GB, class 6 or higher)		
Audio compression	G.711 (u-LAW)		
Plug & Play	Mobile App for Android andiOS		

Network	
Network interface	10BASE-T/100BASE-TX
Protocols	HTTP, HTTPS, TCP/IP, UDP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP, DNS, ARP, RSTP, RTP, UPnP
Security	3-level protection with password (Administrator, Operator, Viewer)
Wireless	802.11 bgn
System requirement	
PC	CPU: Pentium 4 @ 2.6Ghz RAM: 1G Graphics card: 256MB
OS	Microsoft Windows XP/Vista /Windows 7 DirectX 9
Browser	Microsoft Internet Explorer 9 or higher, Mozilla Firefox, Google Chrome, Safari.
Working conditions	
Power supply	Switching AC/DC power supply. AC100 ~ 240V input; DC 5V/ 2A output
Power consumption	<8 W
Working temperature	0°C ~ 50°C
Working humidity	20% ~ 80% RH (without condensation)
Dimensions	70 (T) x 38 (L) x 88.5 (H) mm
Net weight	90g (camera)
Certifications	CE, FCC, ROHS
I/O Connectors	1 x RJ45 10BASE-T/100BASE-TX 1 x power supply Jack 1 x slot Micro SD 1 x Default button 1 x WPS button
Salesbox content	1 x Camera 1 x Antenna 1 x Bracket 1 x CD (user manual and software); 1 x quick user guide; 1 x Ethernet cable 1 x power supply AC/DC 5V/2A

6.2 REF. 1093/184M12 SPECIFICATIONS

Main features:

- Video compression H.264 & MJPEG
- Resolution HD 720P, 25 Frame per second
- ONVIF Compatible
- Up to 6 different video streams
- Infrared LED for night vision
- Micro-SD for local storage (*)
- Integrated Speaker & Microphone for bidirectional audio
- Wi-fi 802.11 bgn
- Plug & Play Connection to mobile devices (Android, iOS)
- Removable IR cut mechanic filter
- Input & Output alarm
- PIR motion sensor

※Please note

(*)Suggested models: SanDisk – Kingston

Video &Camera			
Video profiles & Frame Rate	S1: 1280 x 720	25 FPS	H.264 / MJPEG
	S2: 640 x 360	25 FPS	H.264 / MJPEG
	S3: 320 x 180	25 FPS	H.264
	S4: 320 x 180	25 FPS	MJPEG
	S5: 160 x 96	25 FPS	H.264
	S6: 160 x 96	25 FPS	MJPEG
Bit Rate	128K ~ 6Mbits/sec (CBR/VBR configurable)		
Flash	16MB		
Network Performance	Up to 10 connections at the same time (max 5 in Cloud) Total band: 45 Mbps		
Video	6 different video streams H.264 & Motion JPEG VBR/CBR/GOP for quality/bitrate control Integrated Date/text on OSD RTSP URI		
Digital PTZ	From image area		
Sensor	1/4” CMOS		
WDR	Digital		
Minimum brightness	1 ~ 10,000 Lux		
Lens	f=3.6 mm F1.9		
Night&Day ICR	Auto (managed by program, GPIN or light sensor) or Manual		
IR LEDs	1 x IN/1 x OUT for preconfigured Open/Close alarms		
Video profiles & Frame Rate	8		
Sensor	PIR motion sensor		
Image adjustment	Brightness, Saturation, Color, Contrast, Exposure, White balance, Rotation, Flip/Mirror, Automatic gain control		
Event	Trigger	Program, Motion detection, at restart	
	Action	Send picture via FTP, Save video and picture on Micro-SD card Email and TCP notification	
Local memory	Micro SD (min 4GB, max 32GB, class 6 or higher)		
Audio compression	G.711 (u-LAW)		
Plug & Play	Mobile App for Android and iOS		

Network	
Network interface	10BASE-T/100BASE-TX
Protocols	HTTP, HTTPS, TCP/IP, UDP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP, DNS, ARP, RSTP, RTP, UPnP
Security	3-level protection with password (Administrator, Operator, Viewer)
Wireless	802.11 bgn
System requirement	
PC	CPU: Pentium 4 @ 2.6Ghz RAM: 1G Graphics card: 256MB
OS	Microsoft Windows XP/Vista /Windows 7 DirectX 9
Browser	Microsoft Internet Explorer 9 or higher, Mozilla Firefox, Google Chrome, Safari.
Working conditions	
Power supply	switching AC/DC power supply. AC100 ~ 240V input; DC 5V/ 2A output
Power consumption	<8 W
Working temperature	0°C ~ 50°C
Working humidity	20% ~ 80% RH (without condensation)
Dimensions	70 (T) x 38 (L) x 88.5 (H) mm
Net weight	90g (camera)
Certifications	CE, FCC, ROHS
I/O Connectors	1 x RJ45 10BASE-T/100BASE-TX 1 x power supply Jack 1 x slot Micro SD 1 x Default button 1 x WPS button
Salesbox content	1 x Camera 1 x Antenna 1 x Bracket 1 x CD (user manual and software); 1 x quick user guide; 1 x Ethernet cable 1 x power supply AC/DC 5V/2A

6.3 REF. 1093/184M14 SPECIFICATIONS

Main features:

- Video compression H.264 & MJPEG
- Resolution HD 720P,25 Frame per second
- ONVIF Compatible
- Up to 6 different video streams
- Infrared LED for night vision up to 20m
- Micro-SD for local storage (*)
- Integrated Speaker & Microphone for bidirectional audio
- Wi-fi 802.11 bgn (with dongle)
- Power-over-Ethernet 802.3af
- Analogic output
- Plug & Play Connection to mobile devices (Android, iOS)
- Removable IR cut mechanical filter
- Input & Output alarms

※Please note

(*)Suggested models: SanDisk – Kingston

Video &Camera			
Video profiles & Frame Rate	S1: 1280 x 720	25 FPS	H.264 / MJPEG
	S2: 640 x 360	25 FPS	H.264 / MJPEG
	S3: 320 x 180	25 FPS	H.264
	S4: 320 x 180	25 FPS	MJPEG
	S5: 160 x 96	25 FPS	H.264
	S6: 160 x 96	25 FPS	MJPEG
Bit Rate	128K ~ 6Mbits/sec (CBR/VBR configurable)		
Flash	Up to 10 connections at the same time (max 5 in Cloud) Total band: 45 Mbps		
Network Performance	6 different video streams H.264 & Motion JPEG VBR/CBR/GOP for quality/bitrate control Integrated Date/text on OSD RTSP URI		
Video	From image area		
Digital PTZ	CMOS 1/4” Sensor 720P 1 Megapixel		
Sensor	Digital		
WDR	0 ~ 10,000 Lux		
Lens	f=3.6 mm F1.9		
Night&Day ICR	Auto (managed by program, GPIN or light sensor) or Manual		
In / OutAlarm	1 x IN/1 x OUT for preconfigured Open/Close alarms		
IR LED	24, distance: 20 meters		
Image adjustment	Brightness, Saturation, Color, Contrast, Exposure, White balance, Rotation, Flip/Mirror, Automatic gain control		
Event	Trigger	Program, Motion detection, at restart	
	Action	Send picture via FTP, Save video and picture on Micro-SD card Email and TCP notification	
Local memory	Micro SD (min 4GB, max 32GB, class 6 or higher)		
Audio compression	G.711 (u-LAW)		
Plug & Play	Mobile App for Android and iOS		

Network	
Network interface	10BASE-T/100BASE-TX
Protocols	HTTP, HTTPS, TCP/IP, UDP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP, DNS, ARP, RSTP, RTP, UPnP
Security	3-level protection with password (Administrator, Operator, Viewer)
Wireless	802.11 bgn
System requirement	
PC	CPU: Pentium 4 @ 2.6Ghz RAM: 1G Graphics card: 256MB
OS	Microsoft Windows XP/Vista /Windows 7 DirectX 9
Browser	Microsoft Internet Explorer 9 or higher, Mozilla Firefox, Google Chrome, Safari.
Working conditions	
Power Supply	Switching AC/DC power supply. AC100 ~ 240V input ; DC 12V/ 1 A output
Power Over ethernet	PoE 802.3af
Power consumption	<8 W
Working temperature	0°C ~ 50°C
Working humidity	20% ~ 80% RH (without condensation)
Dimensions	111.4 (T) x 83(H) mm
Net weight	315 g (only camera)
Certifications	CE, FCC, ROHS
I/O Connectors	1 x RJ45 10BASE-T/100BASE-TX 1 x Jack power supply 1 x BNC connector video output 1 x Jack Audio In 1 x Jack Audio Out 1 x clamping strip 1 x inner Micro SD Card slot Terminal pin: 1 x input; 1 x output; 2 x ground; 1 x common 1 x Default
Salesbox content	1 x Camera 1 x Antenna 1 x CD (user manual and software); 1 x quick user guide; 1 x mounting template; 1 x Ethernet cable 1 x Power supply AC/DC 12V/1A

6.4 REF. 1093/184M15 SPECIFICATIONS

Main features:

- Video compression H.264 & MJPEG
- Resolution HD 720P,25 Frame per second
- ONVIF Compatible
- Up to 6 different video streams
- Infrared LED for night vision up to 20m
- Micro-SD for local storage (*)
- Integrated Speaker & Microphone for bidirectional audio
- Wi-fi 802.11 bgn (with dongle)
- Power-over-Ethernet 802.3af
- Analogic output
- Plug & Play Connection to mobile devices (Android, iOS)
- Removable IR cut mechanical filter
- Input & Output alarms
- IP66 Waterproof case

※Please note

(*)Suggested models: SanDisk – Kingston

Video & Telecamera			
Video profiles & Frame Rate	S1: 1280 x 720	25 FPS	H.264 / MJPEG
	S2: 640 x 360	25 FPS	H.264 / MJPEG
	S3: 320 x 180	25 FPS	H.264
	S4: 320 x 180	25 FPS	MJPEG
	S5: 160 x 96	25 FPS	H.264
	S6: 160 x 96	25 FPS	MJPEG
Bit Rate	128K ~ 6Mbits/sec (CBR/VBR configurable)		
Network Performance	Up to 10 connections at the same time (max 5 in Cloud) Total band: 45 Mbps		
Video	6 different video streams H.264 & Motion JPEG VBR/CBR/GOP for quality/bitrate control Integrated Date/text on OSD RTSP URI		
Digital PTZ	From image area		
Sensor	CMOS 1/4” Sensor720P 1 Megapixel		
WDR	Digital		
Minimum brightness	0 ~ 10,000 Lux		
Lens	f=3.6 mm F1.9		
Night&Day ICR	Auto (managed by program, GPIN or light sensor) or Manual		
In / OutAlarm	1 x IN/1 x OUT for preconfigured Open/Close alarms		
IR LED	24, distance: 20 meters		
Image adjustment	Brightness, Saturation, Color, Contrast, Exposure, White balance, Rotation, Flip/Mirror, Automatic gain control		
Event	Trigger	Program, Motion detection, at restart	
	Action	Send picture via FTP, Save video and picture on Micro-SD card Email and TCP notification	
Local memory	Micro SD (min 4GB, max 32GB, class 6 or higher)		
Audio compression	G.711 (u-LAW)		
Plug & Play	Mobile App for Android and iOS		

Network	
Network interface	10BASE-T/100BASE-TX
Protocols	HTTP, HTTPS, TCP/IP, UDP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP, DNS, ARP, RSTP, RTP, UPnP
Security	3-level protection with password (Administrator, Operator, Viewer)
Wireless	802.11 bgn
System requirement	
PC	CPU: Pentium 4 @ 2.6Ghz RAM: 1G Graphics card: 256MB
OS	Microsoft Windows XP/Vista /Windows 7 DirectX 9
Browser	Microsoft Internet Explorer 9 or higher, Mozilla Firefox, Google Chrome, Safari.
Working Conditions	
Power supply	Switching AC/DC power supply. AC100 ~ 240V input; DC 12V/ 1A output
Power Over Ethernet	PoE 802.3af
Power consumption	<8 W
Working temperature	0°C ~ 50°C
Working humidity	20% ~ 80% RH (without condensation)
Dimensions	70 (T) x 111(L) x 70 (H) mm
Net weight	610 g (only camera)
Certifications	CE, FCC, ROHS
I/O Connectors	1 x RJ45 10BASE-T/100BASE-TX 1 x power supply jack 1 x BNC connector for video output 1 x Audio In 1 x Audio Out 1 x clamping strip 1 x inner Micro SD Card slot Terminal pin: 1 x input; 1 x output; 2 x ground; 1x common 1 x Default
Salesbox content	1 x Camera 1 x Antenna 1 x Bracket 1 x CD (user manual and software); 1 x quick user guide; 1 x Ethernet cable 1 x power supply AC/DC 12V/1A

6.5 REF. 1093/184M16 SPECIFICATIONS

Main features:

- Video compression H.264 & MJPEG
- Resolution HD 720P,25 Frame per second
- ONVIF Compatible
- Up to 6 different video streams
- Infrared LED for night vision up to 20m
- Micro-SD for local storage (*)
- Integrated Speaker & Microphone for bidirectional audio
- Wi-fi 802.11 bgn (with dongle)
- Power-over-Ethernet 802.3af
- Analogic output
- Plug & Play Connection to mobile devices (Android, iOS)
- Removable IR cut mechanical filter
- Input & Output alarms
- IP66 Waterproof case

※Please note

(*)Suggested models: SanDisk – Kingston

Video & Camera			
Video profiles& Frame Rate	S1: 1280 x 720	25 FPS	H.264
	S2: 640 x 360	25 FPS	MJPEG
	S3: 360 x 180	25 FPS	H.264
	S4: 360 x 180	25 FPS	MJPEG
	S5: 180 x 90	25 FPS	H.264
	S6: 180 x 90	25 FPS	JPEG
Bit Rate	128K ~ 6Mbits/sec (CBR/VBR configurable)		
Network Performance	Up to 10 connections at the same time (max 5 in Cloud) Total band: 45 Mbps		
Video	6 different video streams H.264 & Motion JPEG VBR/CBR/GOP for quality/bitrate control Integrated Date/text on OSD RTSP URI		
Digital PTZ	From image area		
Sensor	CMOS 1/4” Sensor 720P 1 Megapixel		
WDR	Digital		
Minimum brightness	0 ~ 10,000 Lux		
Lens	Varifocal f=3.3 ~ 12 mm F1.4		
Night&Day ICR	Auto (managed by program, GPIN or light sensor) or Manual		
In / OutAlarm	1 x IN/1 x OUT for preconfigured Open/Close alarms		
IR LED	24, distance: 20 meters		
Image adjustment	Brightness, Saturation, Color, Contrast, Exposure, White balance, Rotation, Flip/Mirror, Automatic gain control		
Event	Trigger	Program, Motion detection, at restart	
	Action	Send picture via FTP, Save video and picture on Micro-SD card Email and TCP notification	
Local memory	Micro SD (min 4GB, max 32GB, class 6 or higher)		
Audio compression	G.711 (u-LAW)		
Plug & Play	Mobile App for Android and iOS		

Network	
Network interface	10BASE-T/100BASE-TX
Protocols	HTTP, HTTPS, TCP/IP, UDP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP, DNS, ARP, RSTP, RTP, UPnP
Security	3-level protection with password (Administrator, Operator, Viewer)
Wireless	802.11 bgn
System requirement	
PC	CPU: Pentium 4 @ 2.6Ghz RAM: 1G Graphics card: 256MB
OS	Microsoft Windows XP/Vista /Windows 7 DirectX 9
Browser	Microsoft Internet Explorer 9 or higher, Mozilla Firefox, Google Chrome, Safari.
Working conditions	
Power supply	Switching AC/DC power supply. AC100 ~ 240V input; DC 12V/ 1A output
Power Over Ethernet	PoE 802.3af
Power consumption	< 8 W
Working temperature	0°C ~ 50°C
Working humidity	20% ~ 80% RH (without condensation)
Dimensions	70 (T) x 111(L) x 70 (H) mm
Net weight	700 g (only camera)
Certifications	CE, FCC, ROHS
I/O Connectors	1 x RJ45 10BASE-T/100BASE-TX 1 x power supply jack 1 x BNC connector for video output 1 x Audio In 1 x Audio Out 1 x terminal block 1 x inner Micro SD Card slot Terminal pin: 1 x input; 1 x output; 2 x ground; 1x common 1 x Default
Salesbox content	1 x Camera 1 x Antenna 1 x Bracket 1 x CD (user manual and software); 1 x quick user guide; 1 x Ethernet cable 1 x power supply AC/DC 12V/1A

7 MAXIMUM DURATION OF MICRO-SD MEMORY CARD UNDER FULL-TIME RECORDING MODE

Resolution MAX (1280x720)

Micro-SD memory duration (days) and (hours)					
SD Card [GB]	Video Quality				
	Minimum (128Kbps)	Low (192Kbps)	Medium (256Kbps)	High (384Kbps)	Maximum (512Kbps)
4	2,54 d 60,88 h	1,69 d 40,58 h	1,27 d 30,44 h	0,85 d 20,29 h	0,63 d 15,22 h
8	5,39 d 129,32 h	3,59 d 86,22 h	2,69 d 64,66 h	1,80 d 43,11 h	1,35 d 32,33 h
16	11,09 d 266,22 h	7,40 d 177,48 h	5,55 d 133,11 h	3,70 d 88,74 h	2,77 d 66,56 h
32	22,50 d 540,02 h	15 d 360,01 h	11,25 d 270,01 h	7,50 d 180,01 h	5,63 d 135 h

Resolution HIGH (640x360)

Micro-SD memory duration (days) and (hours)					
SD Card [GB]	Video Quality				
	Minimum (128Kbps)	Low (192Kbps)	Medium (256Kbps)	High (384Kbps)	Maximum (512Kbps)
4	2,54 d 60,88 h	1,69 d 40,58 h	1,27 d 30,44 h	0,85 d 20,29 h	0,63 d 15,22 h
8	5,39 d 129,32 h	3,59 d 86,22 h	2,69 d 64,66 h	1,80 d 43,11 h	1,35 d 32,33 h
16	11,09 d 266,22 h	7,40 d 177,48 h	5,55 d 133,11 h	3,70 d 88,74 h	2,77 d 66,56 h
32	22,50 d 540,02 h	15 d 360,01 h	11,25 d 270,01 h	7,50 d 180,01 h	5,63 d 135 h

Resolution MEDIUM (320x180)

Micro-SD memory duration (days) and (hours)					
SD Card [GB]	Video Quality				
	Minimum (64Kbps)	Low (96Kbps)	Medium (128Kbps)	High (192Kbps)	Maximum (256Kbps)
4	5,07 d 121,75 h	3,38 d 81,17 h	2,54 d 60,88 h	1,69 d 40,58 h	1,27 d 30,44 h
8	10,78 d 258,65 h	7,18 d 172,43 h	5,39 d 129,32 h	3,59 d 86,22 h	2,69 d 64,66 h
16	22,19 d 532,44 h	14,79 d 354,96 h	11,09 d 266,22 h	7,40 d 177,48 h	5,55 d 133,11 h
32	45 d 1080,03 h	30 d 720,02 h	22,50 d 540,02 h	15 d 360,01 h	11,25 d 270,01 h

Resolution LOW (160x96)

Micro-SD memory duration (days) and (hours)					
SD Card [GB]	Video Quality				
	Minimum (32Kbps)	Low(48Kbps)	Medium (64Kbps)	High (96Kbps)	Maximum (128Kbps)
4	10,15 d 243,50 h	6,76 d 162,34 h	5,07 d 121,75 h	3,38 d 81,17 h	2,54 d 60,88 h
8	21,55 d 517,30 h	14,37 d 344,86 h	10,78 d 258,65 h	7,18 d 172,43 h	5,39 d 129,32 h
16	44,37 d 1064,89 h	29,58 d 709,92 h	22,19 d 532,44 h	14,79 d 354,96 h	11,09 d 266,22 h
32	90 d 2160,07 h	60 d 1440,04 h	45 d 1080,03 h	30 d 720,02 h	22,50 d 540,02 h

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